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NTISUB/B/138-76/011

LANDSAT

U.S. STANDARD CATALOG

1 NOVEMBER 1976
THROUGH
30 NOVEMBER 1976

GSFC/LU-76/011
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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INTRODUCTION

To provide dissemination of information regarding the availability of Landsat imagery, the Image Processing Facility (IPF), located at the Goddard Space Flight Center, publishes a U. S. and Non-U. S. Standard Catalog on a monthly schedule. These catalogs identify imagery which has been processed and input to the data files during the referenced month. The U. S. Standard Catalog includes imagery covering the continental United States, Alaska and Hawaii; the Non-U. S. Catalog identifies all the remaining coverage. Imagery adjacent to the continental U. S. and Alaska borders will normally appear in the U. S. Standard Catalog. As a supplement to these catalogs, the Landsat imagery of one spectral band is available on 16mm microfilm.

In addition to the routine monthly catalogs, the IPF annually publishes a cumulative U. S. and Non-U. S. Standard Catalog for each satellite, covering a year based on the launch date for that satellite. These catalogs include information on all observations acquired and processed by the facility during that year.

Film products for imagery listed in this catalog are available at a nominal price from all three agencies listed below. In addition, the 16mm microfilm can be purchased from the U. S. Department of the Interior (USDI) EROS Data Center and National Oceanic and Atmospheric Administration (NOAA). Digital tapes can be purchased only from the USDI EROS Data Center.

U. S. Department of Agriculture

Aerial Photography Field Office
2505 Parley's Way
Salt Lake City, Utah 84109

U. S. Department of Commerce National Oceanic and Atmospheric Administration

Environment Data Service
Satellite Data Service Branch
D543
World Weather Building
Room 606
Washington, D. C. 20233

U. S. Department of the Interior Geological Survey

User Services Unit
EROS Data Center
Sioux Falls, South Dakota 57198

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APPENDIX

1.1 MONTHLY CATALOGS

The coverage sections contained in the monthly U.S. and Non-U.S. Standard Catalogs are divided into three parts. Part 1 (see Para. 1.1, A) consists of annotated maps which graphically depict the geographic areas covered by imagery listed in the current catalog. Part 2 (see Para. 1.1, B) contains a computer generated listing organized by observation identification number (ID) and includes pertinent information about each image. Part 3 (see Para. 1.1, C) provides a computer listing of observations organized by longitude/latitude.

- A. **Satellite Coverage Maps.** These maps are segregated by cycle and depict the general location of observations listed in the catalog. The format and data content of these maps are slightly different in the U.S. and Non-U.S. catalogs.
 1. **U.S. Satellite Coverage Maps.** Two separate map formats are presented in this catalog. One map outlines the continental U.S. and depicts the estimated cloud cover along each north to south subsatellite path. Each path is identified by actual orbit number and a cross reference, which matches the orbit number to the initial observation ID for that path. The second map provides an enlarged view of Alaska and Hawaii and displays the portion of an orbital pass for which coverage is available. This map does not include cloud cover estimates or orbit numbers.
 2. **Non-U.S. Satellite Coverage Map.** A world outline map is provided with the portions of an orbital swath for which observations are available graphically displayed. This map is intended solely to inform the user as to whether or not coverage is included in the catalog for his area of interest. It is not intended as a rapid reference to specific observations.
- B. **Observation Identification Number (ID) Listing.** The data format for the observation ID listing is identical in the U.S. and Non-U.S. Catalogs. Observation ID numbers are listed in a sequential manner from smallest number to largest. Associated with each ID number in the list is pertinent information about that observation. A sample catalog page with a description of each data item is shown in Figure 1-1.

1. Sample Observation ID Format. See Figure 1-1.

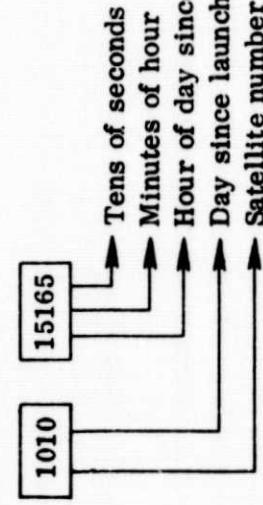
(1)	20 53 APR 74 75	(2)	FROM 02001.75 TO 022875
(4)	OBSERVATION ID	(5)	MICROFILM ROLL NO / POSITION IN ROLL RBV MSS
(6)	DATI ACQUIRED	(7)	CLOUD COVER
(8)	ORBIT NUMBER	(9)	PRINCIPAL POINT OF IMAGE LAT LONG.
(10)	SUN ELEVATION	(11)	SUN AZIMUTH
(11)	IMAGE QUALITY RBV MSS		
	1943-16381 00000/00000 1-10034/0565 0221/75 100 3149 4228N 09815W 25.3 144.8 GGGG		
	1943-16383 00000/00000 1-10034/0566 0221/75 100 3149 46013N 09849W 26.3 143.9 GGG		
	1943-16390 00000/00000 1-10034/0567 0221/75 100 3149 4438N 09923W 27.2 143.0 GGG		
	1943-16392 00000/00000 1-10034/0568 0221/75 70 3149 4313N 09935W 28.2 142.1 GGGG		
	1943-16395 00000/00000 1-10034/0569 0221/75 40 3149 4147N 10026W 29.1 141.2 GGGG		
	1944-16432 00000/00000 1-10034/0606 0222/75 40 3163 4854N 09913W 24.7 145.5 GGGG		
	1944-16435 00000/00000 1-10034/0607 0222/75 90 3163 4130N 09939W 25.6 144.6 GGGG		
	1944-16441 00000/00000 1-10034/0608 0222/75 30 3163 4605N 10014W 26.6 143.8 GGGG		
(3)	KEY	IMAGE QUALITY ● BLANK = HAND NOT PRESENT/REQUESTED ● G = GOOD P = POOR I = FAIR	
(3)	CLOUD COVER ● 0 TO 100 % OF CLOUD COVER ● ** NO CLOUD DATA AVAILABLE		

Figure 1-1. Observation ID Listing for Standard Catalog

2. Description of Data Items

- (1) Date of catalog listing
- (2) Period during which imagery was processed
- (3) Data quality
- (4) Observation ID

- (5) RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
- (6) Date of observation
- (7) Estimated percent of cloud cover
- (8) Orbit number
- (9) Latitude and longitude at observation center (degrees and minutes)
- (10) Sun elevation and azimuth at observation center
- (11) Image quality; see key



(1 or 5 = LANDSAT 1,
2 or 6 = LANDSAT 2);
see Appendix for full
explanation

- C. Longitude/Latitude Listing.** The data format for the longitude/latitude listing is identical in the U.S. and Non-U.S. Catalogs. This listing contains the same observations as the observation ID listing but organizes them by coordinates, using image center location information for each observation. Observations in this listing will be sorted first by longitude and, within longitude, by latitude. The longitude/latitude listing is arranged in the following manner:

180-0 degrees East; 90-0 degrees North and 0-90 degrees South followed by
0-180 degrees West; 90-0 degrees North and 0-90 degrees South

This listing is intended to be used as a tool for locating specific coverage, and once a specific observation has been identified, pertinent information about it can be found by referring to the ID listing.

Figure 1-2 below shows a sample catalog page with a description of each data item.

Figure 1-2. Coordinate Listing for Standard Catalog

2. Description of Data Items

- ① Date of catalog listing
 ② Period during which imagery was processed
 ③ Longitude and latitude at observation center
 (degrees and minutes)
 ④ Observation ID (see Fig. 1-1, Para. 1.1,B,2)
 ⑤ Estimated percent of cloud cover
 ⑥ Image quality; see key
 ⑦ Data quality

1.2 CUMULATIVE STANDARD CATALOGS

Annually, a cumulative catalog is produced which includes information covering all observations and coordinates acquired and processed by the IPF during that year.

A. Observation ID Listing.

1. Sample Observation ID Format. See Figure 1-1.

2. Description of Data Items. See Paragraph 1.1,B,2.

B. Coordinate ID Listing. The coordinate ID listing format is expanded to identify observations for which color or digital products have been made.

1. Sample Coordinate ID Format. See Figure 1-3.

PRINCIPAL POINT OF IMAGE	LONG	LAT	OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL		DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE QUALITY RBV	PRODUCTS B P P B P C C D D
				ROLL	MSS							
07607W	3734N	1295-15144	00000/0000	10010/1659	05/14/73	20	4112	60.2	122.0		GGGG	M
07607W	3731N	1259-15150	00000/0000	:000i0/0088	04/08/73	90	3610	50.7	133.2		GGGG	M
07607W	3731N	1313-15143	00000/0000	10011/0920	06/01/73	80	4363	62.3	116.2		GGGG	M
4438W	4438N	1027-15231	00000/0000	-1-10001/1498	08/19/72	0	375	50.9	136.9		GGGG	M
07608W	3731N	1331-15142	00000/0000	1-10001/1589	06/19/73	100	4614	62.4	112.8		GGGG	M
07608W	3724N	1349-15141	00000/0000	1-10012/1387	07/07/73	10	4865	61.2	112.9		PGPP	N
07609W	4851N	1352-15275	00000/0000	1-10012/1622	07/10/73	60	4907	56.7	133.9		G	
07609W	3144N	1006-15093	1-10001/0377	1-10001/0378	07/29/72	100	82	59.7	:08.3	GGG	PPGC	

③ KEY

CLOUD COVR.
● 0 TO 100 = % OF CLOUD COVER

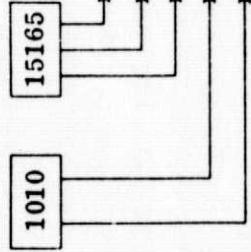
IMAGE QUALITY
● BLANK = BAND NOT PRESENT/REQUESTED

● R = MADE FROM RBV M = MADE FROM MSS
● G = GOOD P = PGOR F = FAIR
B = MADE FROM RBV AND MSS

Figure 1-3. Coordinate Listing for Cumulative Standard Catalog

2. Description of Data Items

- ① Date of catalog listing
- ② Period during which imagery was processed
- ③ Data quality
- ④ Observation ID



(1 or 5 = LANDSAT 1,
2 or 6 = LANDSAT 2);
see Appendix for full
explanation

- ⑤ RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
- ⑥ Date of observation
- ⑦ Estimated percent of cloud cover
- ⑧ Orbit number
- ⑨ Latitude and longitude at observation center (degrees and minutes)
- ⑩ Sun elevation and azimuth at observation center
- ⑪ Image quality; see key
- ⑫ Image/data product availability; see key

SECTION 2 — MICROFILM

2.1 GENERAL

The Image Processing Facility produces a 16 mm microfilm inventory of imagery processed during the referenced month and is organized for convenient use with the Standard Catalog.

As in the case of the Standard Catalog, the microfilm data is divided into U.S. and Non-U.S. segments. Each set of microfilm images is in exact correspondence to a Standard Catalog and can be used in conjunction with the catalog for selecting desired images. A maximum of 1900 images will be contained on one roll of 16 mm x 100 ft microfilm. Because the microfilm images are intended to provide only a summary of the data available, the images are limited to one band each for the RBV and MSS. Although a single observation will produce seven images, in the production of microfilm only the RBV Spectral Band 2 images (0.580 - 0.680 microns) and MSS Spectral Band 2 images (0.6 - 0.7 microns) are reproduced. Each image is a photograph of a 70 mm (-²) image and contains the image identifier and annotation block. See Figure 2-1.

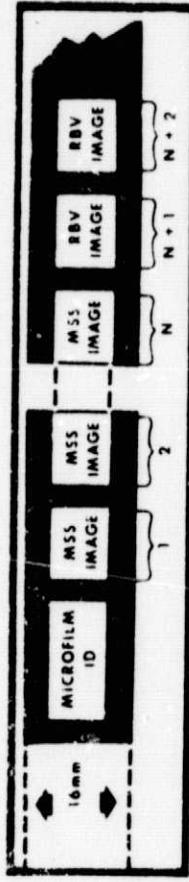


Figure 2-1. Microfilm Format

Microfilm roll numbers contain six digits. The first digit designates the satellite number (blank or 1 = LANDSAT 1, 2- = LANDSAT 2). Example: Roll number 10032 and roll number 1-10034 are both LANDSAT 1 rolls. Roll 2-10032 is a LANDSAT 2 roll. The second digit will be a 1 (for U.S. rolls) or a 2 (for Non-U.S. rolls). The remaining digits are used to number sequentially all microfilm rolls prepared within each group. Example: Roll number 10001 is the first U.S. roll of microfilm produced for LANDSAT 1. Roll number 20004 is the fourth Non-U.S. roll to be produced for LANDSAT 1. The first U.S. roll of microfilm for LANDSAT 2 is number 2-10001.

The microfilm contains two rapid search capabilities to help the user quickly reach the desired scene. They are:

- Code Line Indexing
- Blip Encoding

2.2 CODE LINE INDEXING

The Landsat microfilm images have been annotated with visual code lines to the right of each frame. The visual code lines graduate up the edge of the screen as the film advances and allow the user to advance rapidly to within 20 frames of his desired image. See Figure 2-2.

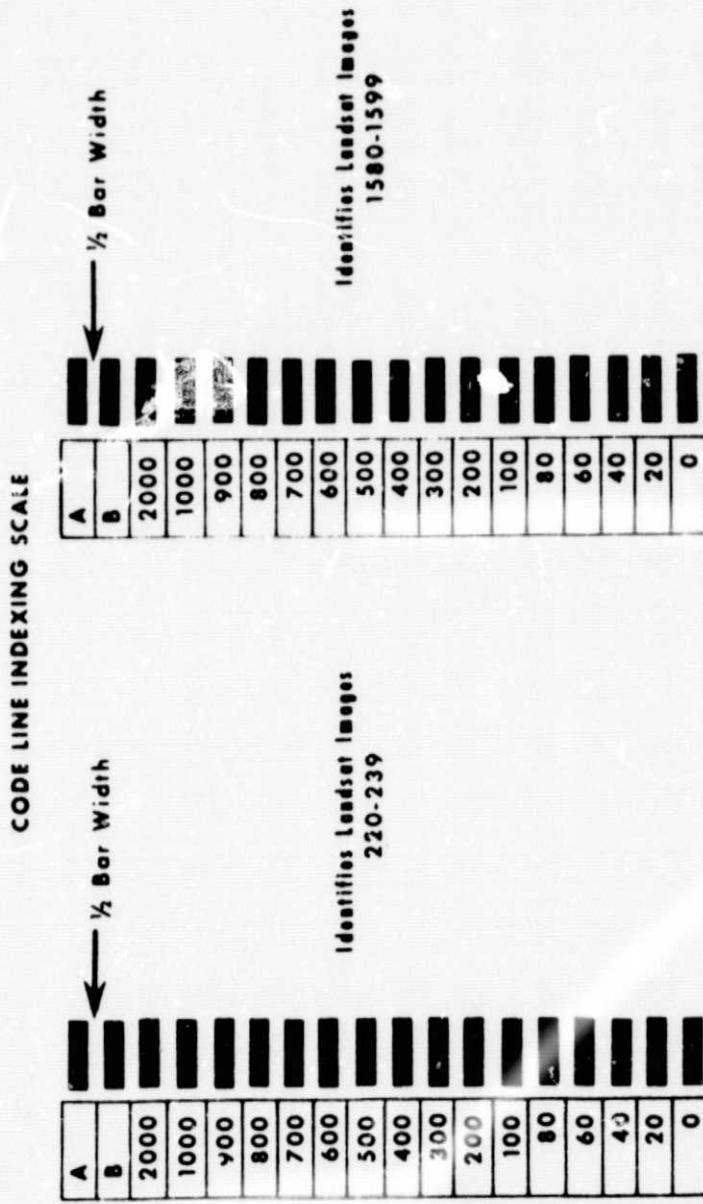


Figure 2-2. Code Line Indexing Scale

To utilize this system, a user must generate a code line indexing bar scale to attach to the face of his viewers. The size and spacing for the bar scale is dependent upon the magnification of his viewer. Landsat imagery is microfilmed at a reduction ratio of 8.5x. To determine the overall length of a scale required for your microfilm reader, multiply 7.4 mm by the enlargement factor of your lens. To determine the bar widths along the bar scale, multiply 0.24 mm by the same factor. A space between each bar should exist that is 1/2 the bar width.

2.3 BLIP ENCODING

The LANDSAT microfilm images have also been annotated with a blip (black spot) at the base of each frame. This type of encoding is designed for use on readers with an electronic sensing and counting capability or an odometer. To use the blip encoding retrieval system, the film will have to be placed in a cartridge. When the cartridge is placed in a reader which contains an odometer or has a keyboard attached, the identification of the desired image is obtained from the Standard Catalog (column 6, Microfilm Position) and either punched on the keyboard or read via the odometer as the film advances. Using a reader configured for rapid search and retrieval, the film advances and the frames (blips) are counted by means of a photosensing light. When the appropriate number has been counted, the reader stops and the desired image is projected on the screen. Using a reader with an odometer requires the user to monitor the odometer as the film advances and stop the advance of the film in the vicinity of the required frame.

SECTION 3 – CYCLE CHARTS
SECTION 3.1 – LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 8 days									
1	1	8	24 Jul 72	31 Jul 72	16	279	296	28 Apr 73	15 May 73
2	9	26	1 Aug 72	18 Aug 72	17	297	314	16 May 73	2 Jun 73
3	27	44	19 Aug 72	5 Sep 72	18	315	332	3 Jun 73	20 Jun 73
4	45	62	6 Sep 72	23 Sep 72	19	333	350	21 Jun 73	8 Jul 73
5	63	80	24 Sep 72	11 Oct 72	20	351	368	9 Jul 73	26 Jul 73
6	81	98	12 Oct 72	29 Oct 72	21	369	386	27 Jul 73	13 Aug 73
7	99	116	30 Oct 72	16 Nov 72	22	387	404	14 Aug 73	31 Aug 73
8	117	134	17 Nov 72	4 Dec 72	23	405	422	1 Sep 73	18 Sep 73
9	135	152	5 Dec 72	22 Dec 72	24	423	440	19 Sep 73	6 Oct 73
10	153	170	23 Dec 72	9 Jan 73	25	441	458	7 Oct 73	24 Oct 73
11	171	188	10 Jan 73	27 Jan 73	26	459	476	25 Oct 73	11 Nov 73
12	189	206	28 Jan 73	14 Feb 73	27	477	494	12 Nov 73	29 Nov 73
13	207	224	15 Feb 73	4 Mar 73	28	495	512	30 Nov 73	17 Dec 73
14	225	242	5 Mar 73	22 Mar 73	29	513	530	18 Dec 73	4 Jan 74
15	243	260	23 Mar 73	9 Apr 73	30	531	548	5 Jan 74	22 Jan 74
	261	278	10 Apr 73	27 Apr 73	31	549	566	28 Jan 74	9 Feb 74

SECTION 3.1 – LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
32	567	584	10 Feb 74	27 Feb 74	48	855	872	25 Nov 74	12 Dec 74
33	585	602	28 Feb 74	17 Mar 74	49	873	890	13 Dec 74	30 Dec 74
34	603	620	18 Mar 74	4 Apr 74	50	891	908	31 Dec 74	17 Jan 75
35	621	638	5 Apr 74	22 Apr 74	51	909	926	18 Jan 75	4 Feb 75
36	639	656	23 Apr 74	11 May 74	52	927	944	5 Feb 75	22 Feb 75
37	657	674	12 May 74	28 May 74	53	945	962	23 Feb 75	12 Mar 75
38	675	692	29 May 74	15 Jun 74	54	963	980	13 Mar 75	30 Mar 75
39	693	710	16 Jun 74	3 Jul 74	55	981	998	31 Mar 75	17 Apr 75
40	711	728	4 Jul 74	21 Jul 74	56	999	1016	18 Apr 75	5 May 75
41	729	746	22 Jul 74	8 Aug 74	57	1017	1034	6 May 75	23 May 75
42	747	764	9 Aug 74	26 Aug 74	58	1035	1052	24 May 75	10 Jun 75
43	765	782	27 Aug 74	13 Sep 74	59	1053	1070	11 Jun 75	28 Jun 75
44	783	800	14 Sep 74	1 Oct 74	60	1071	1088	29 Jun 75	16 Jul 75
45	801	818	2 Oct 74	19 Oct 74	61	1089	1106	17 Jul 75	3 Aug 75
46	819	836	20 Oct 74	6 Nov 74	62	1107	1124	4 Aug 75	21 Aug 75
47	837	854	7 Nov 74	24 Nov 74	63	1125	1142	22 Aug 75	8 Sep 75

SECTION 3.1 – LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
64	1143	1160	9 Sep 75	26 Sep 75	80	1431	1448	23 Jun 76	10 Jul 76
65	1161	1178	27 Sep 75	14 Oct 75	81	1449	1466	11 Jul 76	28 Jul 76
66	1179	1196	15 Oct 75	1 Nov 75	82	1467	1484	29 Jul 76	15 Aug 76
67	1197	1214	2 Nov 75	19 Nov 75	83	1485	1502	16 Aug 76	2 Sep 76
68	1215	1232	20 Nov 75	7 Dec 75	84	1503	1520	3 Sep 76	20 Sep 76
69	1233	1250	8 Dec 75	25 Dec 75	85	1521	1538	21 Sep 76	8 Oct 76
70	1251	1268	26 Dec 75	12 Jan 76	86	1539	1556	9 Oct 76	26 Oct 76
71	1269	1286	13 Jan 76	30 Jan 76	87	1557	1574	27 Oct 76	13 Nov 76
72	1287	1304	31 Jan 76	17 Feb 76	88	1575	1592	14 Nov 76	1 Dec 76
73	1305	1322	18 Feb 76	6 Mar 76	89	1593	1610	2 Dec 76	19 Dec 76
74	1323	1340	7 Mar 76	24 Mar 76	90	1611	1628	20 Dec 76	6 Jan 77
75	1341	1358	25 Mar 76	11 Apr 76	91	1629	1646	7 Jan 77	24 Jan 77
76	1359	1376	12 Apr 76	29 Apr 76	92	1647	1664	25 Jan 77	11 Feb 77
77	1377	1394	30 Apr 76	17 May 76	93	1665	1682	12 Feb 77	1 Mar 77
78	1395	1412	18 May 76	4 Jun 76	94	1683	1700	2 Mar 77	19 Mar 77
79	1413	1430	5 Jun 76	22 Jun 76	95	1701	1718	20 Mar 77	6 Apr 77

SECTION 3.2 — LANDSAT 2 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 22 days									
1	1	25	22 Jan 75	13 Feb 75	19	347	364	4 Jan 76	21 Jan 76
	23	40	14 Feb 75	3 Mar 75	20	365	382	22 Jan 76	8 Feb 76
2	41	58	4 Mar 75	21 Mar 75	21	383	400	9 Feb 76	26 Feb 76
3	59	76	22 Mar 75	8 Apr 75	22	401	418	27 Feb 76	15 Mar 76
4	77	94	9 Apr 75	26 Apr 75	23	419	436	16 Mar 76	2 Apr 76
5	95	112	27 Apr 75	14 May 75	24	437	454	3 Apr 76	20 Apr 76
6	113	130	15 May 75	1 Jun 75	25	455	472	21 Apr 76	8 May 76
7	131	148	2 Jun 75	19 Jun 75	26	473	490	9 May 76	26 May 76
8	149	188	20 Jun 75	7 Jul 75	27	491	508	27 May 76	13 Jun 76
9	167	184	8 Jul 75	25 Jul 75	28	509	526	14 Jun 76	1 Jul 76
10	185	202	26 Jul 75	12 Aug 75	29	527	544	2 Jul 76	19 Jul 76
11	203	220	13 Aug 75	30 Aug 75	30	545	562	20 Jul 76	6 Aug 76
12	221	238	31 Aug 75	17 Sep 75	31	563	580	7 Aug 76	24 Aug 76
13	239	256	18 Sep 75	5 Oct 75	32	581	598	25 Aug 76	11 Sep 76
14	257	274	6 Oct 75	23 Oct 75	33	599	616	12 Sep 76	29 Sep 76
15	275	292	24 Oct 75	10 Nov 75	34	617	634	30 Sep 76	17 Oct 76
16	293	310	11 Nov 75	28 Nov 75	35	635	652	18 Oct 76	4 Nov 76
17	311	328	29 Nov 75	16 Dec 75	36	653	670	5 Nov 76	22 Nov 76
18	329	346	17 Dec 75	3 Jan 76	37	671	688	23 Nov 76	10 Dec 76

LANDSAT 1 COVERAGE

SECTION 4

0015

NO LANDSAT 1 DATA HAS BEEN ACQUIRED DURING NOVEMBER.

0017

SECTION 5

LANDSAT 2 COVERAGE

0019

LANDSAT 2
OBSERVATION ID LISTING

17:23 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PAGE 0020

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL	DATE ACQUIRED	CLOUD COVER	PRINCIPAL POINT NUMBER	SUN OF IMAGE	SUN ELEV.	SUN AZIM.	IMAGE-GUAR	MSS RBV	MSS MSS	MSS DATA	MSS MODE	IMAGE GAIN
				LAT	LONG			123	45678	123	45678	123	45678
2644-15520	00000/0000	2-10024/0011	10/27/76	8979	4841N	08734W	24°3	152°6	GGG	GGG	GGG	GGG	GGG
2644-15523	00000/0000	2-10024/0012	10/27/76	8979	4716N	08811W	25°4	151°8	GGG	GGG	GGG	GGG	GGG
2644-15525	00000/0000	2-10024/0013	10/27/76	8979	4716N	08846W	26°5	151°0	GGG	GGG	GGG	GGG	GGG
2644-15532	00000/0000	2-10024/0014	10/27/76	8979	4427N	08920W	27°6	150°2	GGG	GGG	GGG	GGG	GGG
2644-15534	00000/0000	2-10024/0015	10/27/76	8979	4302N	08952W	26°7	149°3	GGG	GGG	GGG	GGG	GGG
2644-15541	00000/0000	2-10024/0016	10/27/76	8979	4137N	09023W	29°7	148°5	GGG	GGG	GGG	GGG	GGG
2644-15543	00000/0000	2-10024/0017	10/27/76	8979	4011N	09052W	30°8	147°7	GGG	GGG	GGG	GGG	GGG
2644-15550	00000/0000	2-10024/0018	10/27/76	8979	3846N	09121W	31°8	146°8	GGG	GGG	GGG	GGG	GGG
2644-15552	00000/0000	2-10024/0019	10/27/76	8979	3721N	09148W	32°8	145°9	GGG	GGG	GGG	GGG	GGG
2644-15555	00000/0000	2-10024/0020	10/27/76	8979	3555N	09215W	33°9	145°0	GGG	GGG	GGG	GGG	GGG
2644-15561	00000/0000	2-10024/0021	10/27/76	8979	3429N	09241W	34°9	144°1	GGG	GGG	GGG	GGG	GGG
2644-15564	00000/0000	2-10024/0022	10/27/76	8979	3303N	09308W	35°8	143°2	GGG	GGG	GGG	GGG	GGG
2644-15570	00000/0000	2-10024/0023	10/27/76	8979	3136N	09334W	36°8	142°2	GGG	GGG	GGG	GGG	GGG
2644-15573	00000/0000	2-10024/0024	10/27/76	8979	3011N	09358W	37°8	141°2	GGG	GGG	GGG	GGG	GGG
2644-15575	00000/0000	2-10024/0025	10/27/76	8979	2846N	09422W	38°7	140°2	GGG	GGG	GGG	GGG	GGG
2644-15582	00000/0000	2-10024/0026	10/27/76	8979	2720N	09446W	39°6	139°2	GGG	GGG	GGG	GGG	GGG
2644-15584	00000/0000	2-10024/0043	10/27/76	8979	2554N	09509W	40°6	138°1	GGG	GGG	GGG	GGG	GGG
2644-15591	00000/0000	2-10024/0044	10/27/76	8979	2428N	09532W	41°4	137°0	GGG	GGG	GGG	GGG	GGG
2644-17345	00000/0000	2-10024/0045	10/27/76	8980	5005N	11245W	23°2	153°5	GGG	GGG	GGG	GGG	GGG
2644-17352	00000/0000	2-10024/0046	10/27/76	8980	4841N	11323W	24°3	152°6	GGG	GGG	GGG	GGG	GGG
2644-17354	00000/0000	2-10024/0047	10/27/76	8980	4716N	11400W	25°4	151°8	GGG	GGG	GGG	GGG	GGG
2644-17361	00000/0000	2-10024/0048	10/27/76	8980	4551N	11435W	26°5	151°0	GGG	GGG	GGG	GGG	GGG
2644-17363	00000/0000	2-10024/0049	10/27/76	8980	4426N	11509W	27°6	150°2	GGG	GGG	GGG	GGG	GGG
2644-17370	00000/0000	2-10024/0050	10/27/76	8980	4301N	11542W	28°6	149°4	GGG	GGG	GGG	GGG	GGG
2644-17372	00000/0000	2-10024/0051	10/27/76	8980	4136N	11613W	29°7	148°5	GGG	GGG	GGG	GGG	GGG
2644-17375	00000/0000	2-10024/0052	10/27/76	8980	4011N	11643W	30°8	147°7	GGG	GGG	GGG	GGG	GGG
2644-17381	00000/0000	2-10024/0053	10/27/76	8980	3845N	11711W	31°8	146°8	GGG	GGG	GGG	GGG	GGG
2644-17384	00000/0000	2-10024/0054	10/27/76	8980	3719N	11739W	32°8	145°9	GGG	GGG	GGG	GGG	GGG
2644-17390	00000/0000	2-10024/0055	10/27/76	8980	3554N	11805W	33°8	145°1	GGG	GGG	GGG	GGG	GGG
2644-17393	00000/0000	2-10024/0056	10/27/76	8980	3429N	11831W	34°8	144°1	GGG	GGG	GGG	GGG	GGG
2645-14145	00000/0000	2-10024/0083	10/28/76	8992	4717N	06345W	25°1	151°9	GGG	GGG	GGG	GGG	GGG
2645-15574	00000/0000	2-10024/0084	10/28/76	8993	4841N	08900W	24°0	152°8	GGG	GGG	GGG	GGG	GGG
2645-15581	00000/0000	2-10024/0085	10/28/76	8993	4716N	08937W	25°1	151°9	GGG	GGG	GGG	GGG	GGG
2645-15583	00000/0000	2-10024/0086	10/28/76	8993	4551N	09012W	26°2	151°1	GGG	GGG	GGG	GGG	GGG
2645-15590	00000/0000	2-10024/0087	10/28/76	8993	4426N	09045W	27°3	150°3	GGG	GGG	GGG	GGG	GGG
2645-15592	00000/0000	2-10024/0088	10/28/76	8993	4301N	09117W	27°4	149°5	GGG	GGG	GGG	GGG	GGG

KEYS:

CLOUD COVER X *****
 IMAGE QUALITY *****
 MSS DATA MODE *****
 MSS IMAGE GAIN *****

0 TB 100 * % CLOUD COVER.

BLANKS=HAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 (BLANK)=COMPRESSED, L=LINEAR
 (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FM 11/01/76 TO 11/30/76

PAGE 0021

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RSV	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE	SUN ELEV.	SUN AZIM.	IMAGE QUALITY			MSS DATA MODE	IMAGE GAIN
							LAT	LONG	MSS	RBV	
2645-13590	00000/0000	2-10024/0089	10/28/76	8993	4137N	09148W	29.4	148.7	GGGG	GGGG	GGGG
2645-16001	00000/0000	2-10024/0090	10/28/76	8993	4012N	09217W	30.5	147.8	GGGG	GGGG	GGGG
2645-16004	00000/0000	2-10024/0091	10/28/76	8993	3847N	09245W	31.5	147.0	GGGG	GGGG	GGGG
2645-16010	00000/0000	2-10024/0092	10/28/76	8993	3722N	09313W	32.5	146.1	GGGG	GGGG	GGGG
2645-16013	00000/0000	2-10024/0093	10/28/76	8993	3556N	09341W	33.6	145.2	GGGG	GGGG	GGGG
2645-16015	00000/0000	2-10024/0094	10/28/76	8993	3430N	09408W	34.6	144.3	GGGF	GGGF	GGGF
2645-16022	00000/0000	2-10024/0095	10/28/76	8993	3303N	09435W	35.6	143.4	GGGG	GGGG	GGGG
2645-16024	00000/0000	2-10024/0096	10/28/76	8993	3137N	09500W	36.5	142.5	GGGG	GGGG	GGGG
2645-16031	00000/0000	2-10024/0097	10/28/76	8993	3011N	09525W	37.5	141.5	GGGG	GGGG	GGGG
2645-16033	00000/0000	2-10024/0098	10/28/76	8993	2845N	09549W	38.4	140.5	GGGG	GGGG	GGGG
2645-16040	00000/0000	2-10024/0097	10/28/76	8993	2720N	09612W	39.4	139.4	GGGG	GGGG	GGGG
2645-16042	00000/0000	2-10024/0058	10/28/76	8993	2555N	09635W	40.3	138.4	GGGG	GGGG	GGGG
2645-16045	00000/0000	2-10024/0059	10/28/76	8993	2429N	09658W	41.2	137.3	GGGG	GGGG	GGGG
2645-17403	00000/0000	2-10024/0060	10/28/76	8994	5006N	11411W	22.9	153.6	GGGG	GGGG	GGGG
2645-17410	00000/0000	2-10024/0061	10/28/76	8994	4841N	11450W	24.0	152.8	GGGG	GGGG	GGGG
2645-17412	00000/0000	2-10024/0062	10/28/76	8994	4716N	11526W	25.1	152.0	GGGG	GGGG	GGGG
2645-17415	00000/0000	2-10024/0063	10/28/76	8994	4551N	11601W	26.2	151.1	GGGG	GGGG	GGGG
2645-17421	00000/0000	2-10024/0064	10/28/76	8994	4427N	11634W	27.3	150.3	GGGG	GGGG	GGGG
2645-17424	00000/0000	2-10024/0065	10/28/76	8994	4302N	11707W	28.3	149.5	GGGG	GGGG	GGGG
2645-17430	00000/0000	2-10024/0066	10/28/76	8994	4136N	11738W	29.4	148.7	GGGG	GGGG	GGGG
2645-17433	00000/0000	2-10024/0067	10/28/76	8994	4010N	11807W	30.4	147.9	GGGG	GGGG	GGGG
2645-17437	00000/0000	2-10024/0068	10/28/76	8994	3845N	11836W	31.5	147.9	GGGG	GGGG	GGGG
2645-17442	00000/0000	2-10024/0069	10/28/76	8994	3720N	11904W	32.5	146.1	GGGG	GGGG	GGGG
2645-17444	00000/0000	2-10024/0070	10/28/76	8994	3554N	11931W	33.5	145.3	GGGG	GGGG	GGGG
2645-17451	00000/0000	2-10024/0071	10/28/76	8994	3429N	11957W	34.5	144.4	GGGG	GGGG	GGGG
2646-14203	00000/0000	2-10024/0027	10/29/76	9006	4716N	0513W	24.8	152.1	FFGG	FFGG	FFGG
2646-14210	00000/0000	2-10024/0028	10/29/76	9006	4551N	06548W	25.9	151.3	GGFG	GGFG	GGFG
2646-14212	00000/0000	2-10024/0029	10/29/76	9006	4426N	06621W	27.0	150.5	GGGG	GGGG	GGGG
2646-14215	00000/0000	2-10024/0030	10/29/76	9006	4302N	06653W	28.1	149.6	GGGG	GGGG	GGGG
2646-16032	00000/0000	2-10024/0031	10/29/76	9007	4841N	09026W	23.7	152.9	GGGG	GGGG	GGGG
2646-16033	00000/0000	2-10024/0032	10/29/76	9007	47.7N	09103W	24.8	152.1	FFGG	FFGG	FFGG
2646-16041	00000/0000	2-10024/0033	10/29/76	9007	4552N	09138W	25.9	151.3	GGGG	GGGG	GGGG
2646-16044	00000/0000	2-10024/0034	10/29/76	9007	4427N	09211W	27.0	150.5	GGGG	GGGG	GGGG
2646-16051	00000/0000	2-10024/0035	10/29/76	9007	4302N	09243W	28.0	149.7	GGGG	GGGG	GGGG
2646-16053	00000/0000	2-10024/0036	10/29/76	9007	4136N	09313W	29.1	148.8	GGGG	GGGG	GGGG
2646-16055	00000/0000	2-10024/0037	10/29/76	9007	4012N	09343W	30.2	148.0	GGGG	GGGG	GGGG

KEYS:

CLOUD COVER % O TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANK = BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE (BLANK) = UNPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK) = LOW GAIN, H=HIGH GAIN

O TO 100 = % CLOUD COVER.

BLANK = BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.

(BLANK) = UNPRESSED, L=LINEAR

(BLANK) = LOW GAIN, H=HIGH GAIN

17:23 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US

FROM 11/01/76 TO 11/30/76

PAGE 0022

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN PGFL MSS	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT LAT	SUN LONG	SUN F' EV.	AZIM.	IMAGE-QUAL	MSS	MSS	MSS	MSS
	RBV							RBV	MSS	MSS	MSS	MSS
	MSS			LAT	LONG			MODE	123	45678	MODE	GAIN
2646-16062	00000/0000	2=10024/0038	10/29/76	9U	9007	3847N	09412W	31*2	147*2	GGGF	GGGF	GGGF
2646-16064	00000/0000	2=10024/0039	10/29/76	10U	9007	3721N	0941W	32*2	146*3	GGGG	GGGG	GGGG
2646-16071	00000/0000	2=10024/0040	10/29/76	10U	9007	3555N	09508W	33*3	145*4	GGGG	GGGG	GGGG
2646-16073	00000/0000	2=10024/0041	10/29/76	10U	9007	3430N	09534W	34*3	144*5	GGGG	GGGG	GGGG
2646-16080	00000/0000	2=10024/0042	10/29/76	10U	9007	3304N	09600W	35*3	143*6	GGGG	GGGG	GGGG
2646-16082	00000/0000	2=10024/0118	10/29/76	10U	9007	3138N	09625W	36*3	142*7	GGFG	GGFG	GGFG
2646-16085	00000/0000	2=10024/0119	10/29/76	10U	9007	3013N	09649W	37*2	141*7	GGGG	GGGG	GGGG
2646-16091	00000/0000	2=10024/0120	10/29/76	10U	9007	2847N	09714W	38*2	140*7	GGGG	GGGG	GGGG
2646-16094	00000/0000	2=10024/0121	10/29/76	10U	9007	2721N	09737W	39*1	139*7	GGGG	GGGG	GGGG
2646-16100	00000/0000	2=10024/0122	10/29/76	10U	9007	2555N	09801W	40*0	138*6	GGGG	GGGG	GGGG
2646-17462	00000/0000	2=10024/0123	10/29/76	6U	9008	5005N	11537W	22*6	153*7	GGGG	GGGG	GGGG
2646-17464	00000/0000	2=10024/0124	10/29/76	5U	9008	4841N	11615W	23*7	152*9	GGGG	GGGG	GGGG
2646-17471	00000/0000	2=10024/0125	10/29/76	7U	9008	4717N	11652W	24*8	152*1	GGGG	GGGG	GGGG
2646-17473	00000/0000	2=10024/0126	10/29/76	6U	9008	4552N	11727W	25*9	151*3	GGGG	GGGG	GGGG
2646-17480	00000/0000	2=10024/0127	10/29/76	9U	9008	4427N	11800W	27*0	150*5	GGGG	GGGG	GGGG
2646-17482	00000/0000	2=10024/0128	10/29/76	6U	9008	4301N	11832W	28*0	149*7	GGGG	GGGG	GGGG
2646-17485	00000/0000	2=10024/0129	10/29/76	4U	9008	4135N	11903W	29*1	148*9	GGGG	GGGG	GGGG
2646-17491	00000/0000	2=10024/0130	10/29/76	4U	9008	4011N	11933W	30*1	148*0	GGGG	GGGG	GGGG
2646-17494	00000/0000	2=10024/0131	10/29/76	2U	9008	3846N	12002W	31*2	147*2	GGGG	GGGG	GGGG
2646-17500	00000/0000	2=10024/0132	10/29/76	1U	9008	3720N	12030W	32*2	146*3	GGGG	GGGG	GGGG
2646-17503	00000/0000	2=10024/0133	10/29/76	2U	9008	3554N	12057W	33*2	145*5	GGGG	GGGG	GGGG
2646-17505	00000/0000	2=10024/0134	10/29/76	7U	9008	3429N	12123W	34*3	144*6	GGGG	GGGG	GGGG
2647-14262	00000/0000	2=10024/0167	10/30/76	3U	9020	4717N	06639W	24*5	152*2	GGGG	GGGG	GGGG
2647-14264	00000/0000	2=10024/0168	10/30/76	1U	9020	4552N	06714W	25*6	151*4	GGGG	GGGG	GGGG
2647-14271	00000/0000	2=10024/0169	10/30/76	1U	9020	4427N	06747W	26*7	150*6	GGGG	GGGG	GGGG
2647-14273	00000/0000	2=10024/0170	10/30/76	1U	9020	4302V	06819W	27*8	149*8	GGGG	GGGG	GGGG
2647-14280	00000/0000	2=10024/0171	10/30/76	1U	9020	4137V	06851W	28*8	149*0	GGGG	GGGG	GGGG
2647-14282	00000/0000	2=10024/0172	10/30/76	1U	9020	4011V	06922W	29*9	148*2	GGGG	GGGG	GGGG
2647-16091	00000/0000	2=10024/0173	10/30/76	9U	9021	4841N	09152W	23*4	153*0	GGGG	GGGG	GGGG
2647-16093	00000/0000	2=10024/0174	10/30/76	7U	9021	4716V	09228W	24*5	152*2	GGFG	GGFG	GGFG
2647-16100	00000/0000	2=10024/0175	10/30/76	3U	9021	4551V	09303W	25*6	151*4	GFFG	GFFG	GFFG
2647-16102	00000/0000	2=10024/0176	10/30/76	3U	9021	4425V	09336W	26*7	150*6	GGGG	GGGG	GGGG
2647-16105	00000/0000	2=10024/0177	10/30/76	5U	9021	4302V	09408W	27*7	149*8	GGGG	GGGG	GGGG
2647-16111	00000/0000	2=10024/0178	10/30/76	9U	9021	4136V	09439W	28*8	149*0	GGGG	GGGG	GGGG
2647-16114	00000/0000	2=10024/0179	10/30/76	9U	9021	4011V	09509W	29*9	148*2	GGGG	GGGG	GGGG
2647-16120	00000/0000	2=10024/0146	10/30/76	9U	9021	3846V	09538W	30*9	147*3	GGGG	GGGG	GGGG

KEYS:

CLOUD COVER %
IMAGE QUALITY
MSS DATA MODE
MSS IMAGE GAIN

0 TB 100 = % CLOUD COVER.
BLANKS = BAND NOT AVAILABLE. G=GOOD. P=Poor. F=FAIR.
(BLANK)=COMPRESSED, L=LINEAR
(BLANK)=L-BW GAIN, H=HIGH GAIN

17:23 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FRGM 11/01/76 TA 11/30/76

PAGE 0023

OBSERVATION ID	MICROFILM POSITION IN ROLL RBV	ROLL NO./ POSITION IN ROLL MSS	DATE ACQUIRED	CLOUD COVER NUMBER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE	SUN LAT	SUN LONG	IMAGE-QUALITY	SUN ELEV.	AZIM.	RBV MSS	MSS DATA MODE	MSS IMAGE GAIN
2647-16123	00000/0000	2-10024/0147	10/30/76	9	9021	3721N	09607W	31°9	146.5					
2647-16125	00000/0000	2-10024/0148	10/30/76	9	9021	3555N	02634W	33°0	145.6					
2647-16132	00000/0000	2-10024/0149	10/30/76	9	9021	3429N	09700W	34°0	144.7					
2647-16134	00000/0000	2-10024/0150	10/30/76	4	9021	3303N	09726W	35°0	143.8					
2647-16141	00000/0000	2-10024/0151	10/30/76	5	9021	3139N	09752W	36°0	142.9					
2647-16143	00000/0000	2-10024/0152	10/30/76	5	9021	3013N	09817W	36°0	142.0					
2647-16150	00000/0000	2-10024/0153	10/30/76	5	9021	2846N	09842W	37°9	141.0					
2647-16152	00000/0000	2-10024/0154	10/30/76	5	9021	2721N	09926W	38°8	140.0					
2647-16155	00000/0000	2-10024/0155	10/30/76	5	9021	2555N	09928W	39°8	138.9					
2647-17520	00000/0000	2-10024/0156	10/30/76	9	9022	5005N	11703W	22°3	153.8					
2647-17522	00000/0000	2-10024/0157	10/30/76	8	9022	4841N	11742W	23°4	153.0					
2647-17525	00000/0000	2-10024/0158	10/30/76	7	9022	4716N	11818W	24°5	152.2					
2647-17531	00000/0000	2-10024/0159	10/30/76	5	9022	4552N	11853W	25°6	151.4					
2647-17534	00000/0000	2-10024/0160	10/30/76	6	9022	4426N	11926W	26°7	150.6					
2647-17540	00000/0000	2-10024/0161	10/30/76	4	9022	4301N	11958W	27°7	149.8					
2647-17543	00000/0000	2-10024/0162	10/30/76	5	9022	4136N	12029W	28°8	149.0					
2647-17545	00000/0000	2-10024/0163	10/30/76	5	9022	4011N	12059W	29°8	148.2					
2647-17552	00000/0000	2-10024/0164	10/30/76	1	9022	3846N	12128W	30°9	147.4					
2647-17554	00000/0000	2-10024/0165	10/30/76	5	9022	3721N	12157W	31°9	146.5					
2647-17561	00000/0000	2-10024/0166	10/30/76	7	9022	3555N	12225W	33°0	145.6					
2648-14320	00000/0000	2-10024/0205	10/31/76	100	9034	4718N	06860W	24°2	152.3					
2648-14322	00000/0000	2-10024/0206	10/31/76	99	9034	4553N	06841W	25°3	151.5					
2648-14325	00000/0000	2-10024/0207	10/31/76	99	9034	4428N	06914W	26°4	150.7					
2648-14331	00000/0000	2-10024/0208	10/31/76	100	9034	4303N	06946W	27°5	149.9					
2648-14334	00000/0000	2-10024/0209	10/31/76	99	9034	4138N	07017W	28°5	149.1					
2648-14340	00000/0000	2-10024/0210	10/31/76	99	9034	4012N	07047W	29°6	148.3					
2648-14343	00000/0000	2-10024/0211	10/31/76	8	9034	3846N	07116W	30°6	147.5					
2648-14345	00000/0000	2-10024/0212	10/31/76	7	9034	3721N	07144W	31°7	146.7					
2648-14352	00000/0000	2-10024/0213	10/31/76	7	9034	3556N	07211W	32°7	145.8					
2648-16145	00000/0000	2-10024/0225	10/31/76	4	9035	4841N	09319W	23°1	153.1					
2648-16154	00000/0000	2-10024/0226	10/31/76	5	9035	4552N	09430W	25°3	151.5					
2648-16160	00000/0000	2-10024/0227	10/31/76	1	9035	4427N	09503W	26°4	150.7					
2648-16163	00000/0000	2-10024/0228	10/31/76	1	9035	4302N	09536W	27°4	149.9					
2648-16165	00000/0000	2-10024/0229	10/31/76	1	9035	4137N	09607W	28°5	149.1					
2648-16172	00000/0000	2-10024/0230	10/31/76	5	9035	4011N	09637W	29°6	148.3					
2648-16174	00000/0000	2-10024/0231	10/31/76	5	9035	3845N	09706W	30°6	147.5					

KEYS:

CLOUD COVER X ***** 0 TO 100 * X CLOUD COVER.

BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.

(BLANK)=COMPRESSED, L=LINEAR

(BLANK)=LOW GAIN, H=HIGH GAIN

17:23 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
OR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PAGE 0024

OBSER ID	.8N	MICROFILM POSITION IN REEL RBV	ROLL NO./ MSS	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE	SUN ELEV.	AZIM.	IMAGE=QDUL			MSS 123	MSS 45678	IMAGE MODE	GAIN
									SUN LAT	SUN LONG	MSS 123				
2648-16181		00000/0000	2-10024/0232	10/31/76	0	9035	3720N	09734W	31.7	146.7	F	FGG			
2648-16183		00000/0000	2-10024/0233	10/31/76	10	9035	3554N	09801W	32.7	145.8	GGG	GGG			
2648-16190		00000/0000	2-10024/0234	10/31/76	10	9035	3428N	09827W	33.7	144.9	GGG	GGG			
2648-16192		00000/0000	2-10024/0235	10/31/76	0	9035	3303N	09853W	34.7	144.0	GGG	GGG			
2648-16195		00000/0000	2-10024/0236	10/31/76	0	9035	3138N	09918W	35.7	143.1	GGG	GGG			
2648-16201		00000/0000	2-10024/0237	10/31/76	0	9035	3012N	09942W	36.7	142.2	GGG	GGG			
2648-16204		00000/0000	2-10024/0238	10/31/76	0	9035	2847N	10006W	37.6	141.2	GG	GG			
2648-16210		00000/0000	2-10024/0239	10/31/76	10	9035	2720N	10029W	38.6	140.2	GGG	GGG			
2648-16213		00000/0000	2-10024/0240	10/31/76	50	9035	2554N	10052W	39.5	139.2	GGG	GGG			
2648-17574		00000/0000	2-10024/0241	10/31/76	90	9036	5005N	11828W	22.0	153.9	GGG	GGG			
2648-17580		00000/0000	2-10024/0242	10/31/76	90	9036	4841N	11906W	23.1	153.1	GGG	GGG			
2648-17583		00000/0000	2-10024/0243	10/31/76	70	9036	4716N	11942W	24.2	152.3	GGG	GGG			
2648-17585		00000/0000	2-10024/0244	10/31/76	70	9036	4552N	12016W	25.3	151.5	GGG	GGG			
2648-17592		00000/0000	2-10024/0245	10/31/76	70	9036	4427N	12049W	26.3	150.7	GGG	GGG			
2648-17594		00000/0000	2-10024/0246	10/31/76	80	9036	4302N	12121W	27.4	150.0	GGG	GGG			
2648-18001		00000/0000	2-10024/0247	10/31/76	60	9036	4138N	12153W	28.5	149.2	GGG	GGG			
2648-18003		00000/0000	2-10024/0248	10/31/76	40	9036	4012N	12224W	29.9	148.3	GGG	GGG			
2648-18010		00000/0000	2-10024/0249	10/31/76	20	9036	3847N	12254W	30.6	147.5	GGG	GGG			
2648-18012		00000/0000	2-10024/0250	10/31/76	20	9036	3721N	12322W	31.6	146.7	GGG	GGG			
2649-14374		00000/0000	2-10024/0251	11/01/76	100	9048	4717N	06931W	23.9	152.4	GGG	GGG			
2649-14380		00000/0000	2-10024/0252	11/01/76	90	9048	4553N	07006W	25.0	151.6	GGG	GGG			
2649-14383		00000/0000	2-10024/0253	11/01/76	80	9048	4428N	07039W	26.1	150.9	GGG	GGG			
2649-14385		00000/0000	2-10024/0254	11/01/76	60	9048	4301N	07111W	27.2	150.1	GGG	GGG			
2649-14392		00000/0000	2-10024/0255	11/01/76	20	9048	4136N	07143W	28.2	149.3	GGG	GGG			
2649-14394		00000/0000	2-10024/0256	11/01/76	50	9048	4011N	07213W	29.3	148.5	GGG	GGG			
2649-14401		00000/0000	2-10024/0257	11/01/76	80	9048	4428N	07242W	30.3	147.7	GGG	GGG			
2649-14403		00000/0000	2-10024/0258	11/01/76	90	9048	3721N	07310W	31.4	146.8	GGG	GGG			
2649-14410		00000/0000	2-10024/0259	11/01/76	80	9048	3555N	07337W	32.4	146.0	GGG	GGG			
2649-14412		00000/0000	2-10024/0260	11/01/76	70	9048	3430N	07404W	33.4	145.1	GGG	GGG			
2649-14415		00000/0000	2-10024/0261	11/01/76	80	9048	3305N	07430W	34.4	144.2	GGG	GGG			
2649-14421		00000/0000	2-10024/0262	11/01/76	50	9048	3139N	07455W	35.4	143.3	GGG	GGG			
2649-16201		00000/0000	2-10024/0263	11/01/76	10	9049	5006N	09406W	21.7	154.0	GGG	GGG			
2649-16203		00000/0000	2-10024/0264	11/01/76	10	9049	4841N	09445W	22.8	153.2	GGG	GGG			
2649-16210		00000/0000	2-10024/0265	11/01/76	10	9049	4716N	09521W	23.9	152.4	GGG	GGG			
2649-16212		00000/0000	2-10024/0266	11/01/76	10	9049	4552N	09556W	25.0	151.6	GGG	GGG			
2649-16215		00000/0000	2-10024/0267	11/01/76	10	9049	4427N	09629W	26.1	150.9	GGG	GGG			

KEYS:

CLOUD COVER %
 IMAGE QUALITY
 MSS DATA MODE
 MSS IMAGE GAIN.....

0 TO 100 = % CLOUD COVER.
 BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 (BLANK)=COMPRESSED, L=LINEAR
 (BLANK)=LOW GAIN, H=HIGH GAIN

17:23 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR CONTOURBUS US
FROM 11/01/76 TO 11/30/76

PAGE 0025

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN LONG	SUN ELEV.	SUN AZIM.	IMAGE QUALITY	MSS RBV	MSS DATA	MSS IMAGE	MSS GAIN
2649-162221	00000/0000	2-10024/0268	11/01/76	3U	9049	4301V	09701W	27.1	150.1	GGGF	GGGG	GGGG
2649-162224	00000/0000	2-10024/0269	11/01/76	2U	9049	4136V	09732W	28.2	149.3	GGGG	GGGG	GGGG
2649-16230	00000/0000	2-10024/0270	11/01/76	1U	9049	4012V	09802W	29.3	148.5	GGGG	GGGG	GGGG
2649-16233	00000/0000	2-10024/0271	11/01/76	1U	9049	3846V	09832W	30.3	147.7	GGGG	GGGG	GGGG
2649-16235	00000/0000	2-10024/0272	11/01/76	U	9049	3721V	09900W	31.4	146.8	GGGG	GGGG	GGGG
2649-16242	00000/0000	2-10024/0273	11/01/76	U	9049	3556V	09928W	32.4	146.0	GGGG	GGGG	GGGG
2649-16244	00000/0000	2-10024/0274	11/01/76	1U	9049	3430V	09954W	33.4	145.1	GGGG	GGGG	GGGG
2649-16251	00000/0000	2-10024/0275	11/01/76	U	9049	3304V	10020W	34.4	144.2	GGGG	GGGG	GGGG
2649-16253	00000/0000	2-10024/0276	11/01/76	1U	9049	3139V	10044W	35.4	143.3	GGGG	GGGG	GGGG
2649-16260	00000/0000	2-10024/0277	11/01/76	1U	9049	3014V	10109W	36.4	142.4	GGGG	GGGG	GGGG
2649-16262	00000/0000	2-10024/0278	11/01/76	3U	9049	2848V	10133W	37.4	141.4	GGGG	GGGG	GGGG
2649-16265	00000/0000	2-10024/0279	11/01/76	7U	9049	2721V	10157W	38.3	140.4	GGGG	GGGG	GGGG
2649-18032	00000/0000	2-10024/0280	11/01/76	2U	9050	5005V	11956W	21.7	154.0	GGGG	GGGG	GGGG
2649-18035	00000/0000	2-10024/0281	11/01/76	1U	9050	4841V	12035W	22.8	153.2	GGGG	GGGG	GGGG
2649-18041	00000/0000	2-10024/0282	11/01/76	1U	9050	4715V	12111W	23.9	152.4	GGGG	GGGG	GGGG
2649-18044	00000/0000	2-10024/0283	11/01/76	7U	9050	4550V	12146W	25.0	151.7	GGGG	GGGG	GGGG
2649-18050	00000/0000	2-10024/0284	11/01/76	8U	9050	4426V	12220W	26.0	150.9	GGGG	GGGG	GGGG
2649-18053	00000/0000	2-10024/0285	11/01/76	9U	9050	4302V	12252W	27.1	150.1	GGGG	GGGG	GGGG
2649-18055	00000/0000	2-10024/0286	11/01/76	7U	9050	4137V	12324W	28.2	149.3	GGGG	GGGG	GGGG
2649-18062	00000/0000	2-10024/0290	11/01/76	6U	9050	4011V	12354W	29.3	148.5	GG	GG	GG
2649-18064	00000/0000	2-10024/0287	11/01/76	5U	9050	3846V	12423W	30.3	147.7	GGGG	GGGG	GGGG
2649-18071	00000/0000	2-10024/0288	11/01/76	8U	9050	3720V	12451W	31.4	146.9	GGGG	GGGG	GGGG
2649-18073	00000/0000	2-10024/0289	11/01/76	9U	9050	3555V	12518W	32.4	146.0	GGGG	GGGG	GGGG
2650-14432	00000/0000	2-10024/0180	11/02/76	9U	9062	4717V	07057W	23.6	152.5	GGGG	GGGG	GGGG
2650-14435	00000/0000	2-10024/0181	11/02/76	8U	9062	4552V	07132W	24.7	151.8	GFGF	GGGG	GGGG
2650-14441	00000/0000	2-10024/0182	11/02/76	6U	9062	4427V	07206W	25.8	151.0	GGGG	GGGG	GGGG
2650-14444	00000/0000	2-10024/0183	11/02/76	1U	9062	4302V	07239W	26.9	150.2	GGGG	GGGG	GGGG
2650-14450	00000/0000	2-10024/0184	11/02/76	U	9062	4136V	07311W	27.9	149.4	GGGG	GGGG	GGGG
2650-14453	00000/0000	2-10024/0185	11/02/76	1U	9062	4011V	07341W	29.0	148.6	GGGG	GGGG	GGGG
2650-14455	00000/0000	2-10024/0186	11/02/76	1U	9062	3846V	07410W	30.1	147.8	GGGG	GGGG	GGGG
2650-14462	00000/0000	2-10024/0187	11/02/76	1U	9062	3720V	07438W	31.1	147.0	GGGG	GGGG	GGGG
2650-14464	00000/0000	2-10024/0188	11/02/76	2U	9062	3555V	07505W	32.1	146.2	GGGG	GGGG	GGGG
2650-14471	00000/0000	2-10024/0189	11/02/76	5U	9062	3430V	07531W	33.2	145.3	GGGG	GGGG	GGGG
2650-14473	00000/0000	2-10024/0190	11/02/76	7U	9062	3304V	07557W	34.2	144.4	GGGG	GGGG	GGGG
2650-14480	00000/0000	2-10024/0191	11/02/76	6U	9062	3139V	07622W	35.2	143.5	GGGG	GGGG	GGGG
2650-14482	00000/0000	2-10024/0192	11/02/76	8U	9062	3013V	07647W	36.2	142.6	GGGG	GGGG	GGGG

KEYS:

CLOUD COVER % * * * * * O TO 100 * % CLOUD COVER.

BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.

(BLANK)=COMPRESSED, L=LINEAR

(BLANK)=LOW GAIN, H=HIGH GAIN

17:23 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PAGE 0026

OBSEVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE-QUAL	MSS RBV	MSS DATA	MSS MODE	MSS GAIN
2650-1448	00000/0000 2-10024/0193	11/02/76	4U	9062	2848N	07711W	37.1	141.6	07734W	38.1	140.7
2650-14491	00000/0000 2-10024/0194	11/02/76	5U	9062	2722N	09648W	23.6	152.5	09648W	24.7	151.8
2650-16264	00000/0000 2-10024/0291	11/02/76	U	9063	4717N	09723W	25.8	151.0	09756W	26.8	150.2
2650-16270	00000/0000 2-10024/0292	11/02/76	U	9063	4552N	09828W	26.8	149.4	09859W	27.9	148.6
2650-16273	00000/0000 2-10024/0293	11/02/76	U	9063	4427V	10026W	30.0	147.8	10053W	31.1	147.0
2650-16275	00000/0000 2-10024/0294	11/02/76	U	9063	4301N	10053W	32.1	146.2	10120W	33.1	145.3
2650-16282	00000/0000 2-10024/0295	11/02/76	U	9063	4136V	10145W	34.2	144.4	10210W	35.2	143.5
2650-16284	00000/0000 2-10024/0296	11/02/76	U	9063	4011N	10235W	36.1	142.6	10235W	37.1	141.7
2650-16291	00000/0000 2-10024/0297	11/02/76	U	9063	3846N	10258W	38.1	140.7	10322W	39.2	139.5
2650-16293	00000/0000 2-10024/0298	11/02/76	U	9063	3721V	10217W	41.7	138.5	10217W	42.8	137.5
2650-16300	00000/0000 2-10024/0299	11/02/76	U	9063	3555V	10236W	43.8	137.0	10236W	44.9	136.2
2650-16302	00000/0000 2-10024/0300	11/02/76	U	9063	3430V	10259W	45.9	135.3	10344W	47.0	134.5
2650-16305	00000/0000 2-10024/0301	11/02/76	U	9063	3304N	10417W	48.1	134.4	10417W	49.2	133.5
2650-16311	00000/0000 2-10024/0302	11/02/76	U	9063	3139N	10504W	50.0	133.5	10504W	51.1	132.5
2650-16314	00000/0000 2-10024/0303	11/02/76	U	9063	3012N	10535W	51.1	132.5	10535W	52.2	131.5
2650-16320	00000/0000 2-10024/0304	11/02/76	U	9063	2846N	10647W	52.2	131.5	10647W	53.3	130.5
2650-16323	00000/0000 2-10024/0305	11/02/76	U	9063	2720N	10759W	53.3	130.7	10759W	54.4	129.5
2650-18093	00000/0000 2-10024/0306	11/02/76	4U	9064	4841V	11215W	22.5	153.3	11223W	23.6	152.5
2650-18095	00000/0000 2-10024/0307	11/02/76	9U	9064	4717V	11231W	24.7	151.8	11244W	25.8	150.2
2650-18102	00000/0000 2-10024/0308	11/02/76	9U	9064	4552V	11234W	25.7	151.0	11247W	26.8	150.2
2650-18104	00000/0000 2-10024/0309	11/02/76	8U	9064	4427V	11241W	26.8	150.2	11244W	27.9	149.4
2650-18111	00000/0000 2-10024/0310	11/02/76	7U	9064	4301N	11251W	29.0	148.6	11251W	29.9	147.0
2650-18113	00000/0000 2-10024/0311	11/02/76	7U	9064	4137V	11258W	30.1	147.5	11266W	31.2	146.3
2650-18120	00000/0000 2-10024/0312	11/02/76	5U	9064	4011N	11344W	32.3	145.6	11344W	33.4	144.5
2650-14490	00000/0000 2-10024/0343	11/03/76	9U	9076	4717V	07224W	33.3	152.6	07224W	34.4	151.9
2650-14493	00000/0000 2-10024/0344	11/03/76	6U	9076	4552V	07259W	34.4	151.9	07259W	35.5	151.1
2650-14495	00000/0000 2-10024/0345	11/03/76	6U	9076	4427V	07332W	35.5	151.1	07332W	36.6	150.3
2650-14502	00000/0000 2-10024/0346	11/03/76	9U	9076	4302V	07404W	37.7	149.5	07404W	38.8	148.8
2650-14504	00000/0000 2-10024/0347	11/03/76	9U	9076	4137V	07435W	38.7	149.5	07435W	39.8	148.0
2650-14511	00000/0000 2-10024/0348	11/03/76	9U	9076	4012V	07506W	39.8	148.8	07506W	40.9	147.8
2650-14513	00000/0000 2-10024/0349	11/03/76	5U	9076	3846N	07535W	40.8	148.0	07535W	41.9	147.0
2650-14520	00000/0000 2-10024/0350	11/03/76	3U	9076	3721V	07602W	41.8	147.1	07602W	42.9	146.3
2650-14522	00000/0000 2-10024/0351	11/03/76	6U	9076	3556V	07629W	43.9	145.5	07629W	44.9	144.6
2650-14529	00000/0000 2-10024/0352	11/03/76	9U	9076	3430N	07656W	45.9	145.5	07656W	46.9	144.6
2650-14531	00000/0000 2-10024/0353	11/03/76	9U	9076	3304N	07722W	46.9	145.7	07722W	47.9	144.7
2650-14534	00000/0000 2-10024/0354	11/03/76	9U	9076	3139V	07747W	47.7	145.7	07747W	48.7	144.7

KEYS:

C=CLOUD COVER %
I=IMAGE QUALITY
M=MSS DATA MODE
G=GAIN

% CLOUD COVER.
* IMAGE QUALITY.
MSS DATA MODE.
\$ GAIN.
BLANK = NOT AVAILABLE.
(BLANK) = COMPRESSED, L=LINEAR
(BLANK) = LOW GAIN, H=HIGH GAIN.

17:23 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

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OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV MSS	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT LAT	SUN ELEV.	SUN AZIM.	IMAGE QUALITY	MSS RBV	MSS DATA	MSS IMAGE	
				LNG			123	45678	123	45678	
2651-14540	00000/0000	2-10024/0355	11/03/76	9076	3013N	07812W	35.9	142.8	GGGG	GGGG	
2651-14543	00000/0000	2-10024/0356	11/03/76	9076	2847N	07836W	36.9	141.8	GGGG	GGGG	
2651-14545	00000/0000	2-10024/0357	11/03/76	9076	2721N	07900W	37.8	140.9	GGGG	GGGG	
2651-14552	00000/0000	2-10024/0358	11/03/76	9076	2555N	07923W	38.8	139.9	GGGG	GGGG	
2651-14554	00000/0000	2-10024/0359	11/03/76	9076	2429N	07946W	39.7	138.8	GGGG	GGGG	
2652-14542	00000/0000	2-10024/0360	11/04/76	9090	4841N	07351W	21.9	153.5	GGGG	GGGG	
2652-14545	00000/0000	2-10024/0361	11/04/76	100	9030	4716N	07351W	23.0	152.7	GGGG	GGGG
2652-14551	00000/0000	2-10024/0362	11/04/76	9090	4551N	07426W	24.1	152.0	GGGG	GGGG	
2652-14554	00000/0000	2-10024/0363	11/04/76	9090	4426N	07459W	25.2	151.2	GGGG	GGGG	
2652-14560	00000/0000	2-10024/0364	11/04/76	9090	4301N	07531W	26.3	150.4	GGGG	GGGG	
2652-14563	00000/0000	2-10024/0365	11/04/76	70	9030	4135N	07601W	27.4	149.7	GGGG	GGGG
2652-14565	00000/0000	2-10024/0366	11/04/76	40	9090	4011N	07630W	28.4	148.9	GGGG	GGGG
2652-14572	00000/0000	2-10024/0367	11/04/76	50	9090	3846N	07659W	29.5	148.1	GGGG	GGGG
2652-14574	00000/0000	2-10024/0368	11/04/76	30	9090	3720N	07727W	30.5	147.3	GGGG	GGGG
2652-14581	00000/0000	2-10024/0369	11/04/76	0	9090	3555N	07754W	31.6	146.5	GGGG	GGGG
2652-14583	00000/0000	2-10024/0370	11/04/76	0	9090	3429N	07821W	32.6	145.6	GGGG	GGGG
2652-14590	00000/0000	2-10024/0371	11/04/76	0	9090	3303N	07847W	33.6	144.8	GGGG	GGGG
2652-14592	00000/0000	2-10024/0372	11/04/76	0	9090	3138N	07913W	34.6	143.9	GGGG	GGGG
2652-14595	00000/0000	2-10024/0373	11/04/76	10	9090	3012N	07939W	35.6	143.1	GGGG	GGGG
2652-15001	00000/0000	2-10024/0374	11/04/76	50	9090	2845N	08004W	36.6	142.1	GGGG	GGGG
2652-15004	00000/0000	2-10024/0375	11/04/76	50	9090	2719N	08028W	37.6	141.1	GGGG	GGGG
2652-15010	00000/0000	2-10024/0376	11/04/76	30	9090	2553N	08051W	38.5	140.1	GGGG	GGGG
2652-15013	00000/0000	2-10024/0377	11/04/76	40	9090	2427N	08114W	39.4	139.1	GGGF	GGGG
2653-15000	00000/0000	2-10024/0404	11/05/76	80	9104	4840N	07439W	21.6	153.6	GGGG	GGGG
2653-15003	00000/0000	2-10024/0405	11/05/76	80	9104	4716N	07515W	22.7	152.8	GGGG	GGGG
2653-15005	00000/0000	2-10024/0406	11/05/76	70	9104	4551N	07550W	23.8	152.1	GGGG	GGGG
2653-15012	00000/0000	2-10024/0407	11/05/76	60	9104	4426N	07624W	24.9	151.3	GGGG	GGGG
2653-15014	00000/0000	2-10024/0408	11/05/76	60	9104	4301N	07656W	26.0	150.5	GGGG	GGGG
2653-15021	00000/0000	2-10024/0409	11/05/76	60	9104	4136N	07726W	27.1	149.8	GGGG	GGGG
2653-15023	00000/0000	2-10024/0410	11/05/76	60	9104	4011N	07756W	28.2	149.0	GGGG	GGGG
2653-15030	00000/0000	2-10024/0411	11/05/76	40	9104	3846N	07824W	29.2	148.2	GGGG	GGGG
2653-15032	00000/0000	2-10024/0412	11/05/76	10	9104	3721N	07852W	30.3	147.4	GGGG	GGGG
2653-15035	00000/0000	2-10024/0413	11/05/76	0	9104	3555N	07920W	31.3	146.6	FFGF	GGGG
2653-15041	00000/0000	2-10024/0414	11/05/76	0	9104	3430N	07947W	32.3	145.8	GGGG	GGGG
2653-15044	00000/0000	2-10024/0415	11/05/76	20	9104	3305N	08013W	33.4	144.9	GGGG	GGGG
2653-15050	00000/0000	2-10024/0416	11/05/76	30	9104	3138N	08039W	34.4	144.1	FFGF	FFGF

KEYS:

CLOUD COVER % * * * * *
 IMAGE QUALITY * * * * *
 MSS DATA MODE * * * * *
 MSS IMAGE GAIN * * * * *

O T8 100 * * * * *
 X CLOUD COVER.
 BLANKS=BAND NOT AVAILABLE.
 (BLANK)=COMPRESSED, L=LINEAR
 (BLANK)=LOW GAIN, H=HIGH GAIN

17:23 SEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PAGE 0028

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE	SUN LAT	SUN LONG	SUN ELEV.	AZIM.	RBV	MSS	IMAGE GAIN	MSS	DATA MODE	MSS	IMAGE GAIN
2653-15053	00000/0000	2=10024/0417	11/05/76	4U	9104	3012N	08103W			35.4	143.2				
2653-15055	00000/0000	2=10024/0418	11/05/76	5U	9104	2846N	08127W			36.3	142.2				
2653-15062	00000/0000	2=10024/0421	11/05/76	6U	9104	2720N	08150W			37.3	141.3				
2653-15064	00000/0000	2=10024/0419	11/05/76	7U	9104	2555N	08213W			38.3	140.3				
2653-15071	00000/0000	2=10024/0420	11/05/76	3U	9104	2428N	08237W			39.2	139.3				
2654-15054	00000/0000	2=10024/0386	11/06/76	10U	9118	4841N	07606W			21.3	153.6				
2654-15061	00000/0000	2=10024/0387	11/06/76	9U	9118	4716N	07643W			22.4	152.9				
2654-15063	00000/0000	2=10024/0388	11/06/76	9U	9118	4552N	07718W			23.5	152.1				
2654-15070	00000/0000	2=10024/0389	11/06/76	9U	9118	4427N	07752W			24.6	151.4				
2654-15072	00000/0000	2=10024/0390	11/06/76	7U	9118	4300N	07824W			25.7	150.6				
2654-15075	00000/0000	2=10024/0391	11/06/76	6U	9118	4134N	07854W			26.8	149.9				
2654-15081	00000/0000	2=10024/0392	11/06/76	3U	9118	4010N	07924W			27.9	149.1				
2654-15084	00000/0000	2=10024/0393	11/06/76	1U	9118	3846N	07954W			28.9	148.3				
2654-15090	00000/0000	2=10024/0394	11/06/76	U	9118	3720N	08022W			30.0	147.6				
2654-15093	00000/0000	2=10024/0395	11/06/76	U	9118	3554N	08050W			31.0	146.7				
2654-15095	00000/0000	2=10024/0396	11/06/76	U	9118	3429N	08116W			32.1	145.9				
2654-15102	00000/0000	2=10024/0397	11/06/76	U	9118	3303N	08141W			33.1	145.1				
2654-15104	00000/0000	2=10024/0398	11/06/76	1U	9118	3137N	08206W			34.1	144.2				
2654-15111	00000/0000	2=10024/0399	11/06/76	2U	9118	3012N	08230W			35.1	143.3				
2654-15113	00000/0000	2=10024/0403	11/06/76	2U	9118	2846N	08254W			36.1	142.4				
2654-15120	00000/0000	2=10024/0400	11/06/76	3U	9118	2720N	08317W			37.1	141.5				
2654-15122	00000/0000	2=10024/0401	11/06/76	4U	9118	2554N	08340W			38.0	140.5				
2654-15125	00000/0000	2=10024/0402	11/06/76	7U	9118	2427N	08402W			39.0	139.5				

KEYS:

CLOUD COVER % 0 TO 100 = X CLOUD COVER.

IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=Poor. F=FAIR.

MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR

MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

H H H

17:26 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR ALASKA

FROM 11/01/76 TO 11/30/76

PAGE - 0029

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL MSS	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE QUALITY	MSS RBV	MSS DATA 123	MSS DATA 45678	MSS MODE	GAIN
2642=20450	00000/0000 2=10024/0072	10/25/76	4U	8954	6641N	14943W	10•3	165•7	PGGG			
2642=20452	00000/0000 2=10024/0073	10/25/76	4U	8954	6521N	15111W	11•4	164•3	GGGG			
2642=20455	00000/0000 2=10024/0074	10/25/76	8U	8954	6400N	15231W	12•6	163•0	GGGG			
2642=20461	00000/0000 2=10024/0075	10/25/76	8U	8954	6238N	15345W	13•7	161•8	GGGG			
2642=20464	00000/0000 2=10024/0076	10/25/76	8U	8954	6116N	15452W	14•8	160•7	GGGG			
2642=20470	00000/0000 2=10024/0077	10/25/76	9U	8954	5953N	15554W	16•0	159•6	GGGG			
2642=20473	00000/0000 2=10024/0078	10/25/76	9U	8954	5830N	15652W	17•1	158•6	GGGG			
2642=20475	00000/0000 2=10024/0079	10/25/76	9U	8954	5707N	15745W	18•2	157•7	GGGG			
2642=20482	00000/0000 2=10024/0080	10/25/76	9U	8954	5543N	15835W	19•4	156•7	GGGG			
2642=20484	00000/0000 2=10024/0081	10/25/76	8U	8954	5419N	15922W	20•5	155•8	GGGG			
2642=22320	00000/0000 2=10024/0082	10/25/76	10U	8955	5418N	1746E	20•5	155•8	GGGG			
2643=20504	00000/0000 2=10024/0001	10/26/76	10U	8968	6641N	15106W	9•9	165•8	FFFF			
2643=20511	00000/0000 2=10024/0002	10/26/76	9U	8968	6520N	15235W	11•1	164•4	FFGG			
2643=20513	00000/0000 2=10024/0003	10/26/76	7U	8968	6400N	15355W	12•2	163•1	GGGG			
2643=20520	00000/0000 2=10024/0004	10/26/76	4U	8968	6238N	15508W	13•4	161•9	GFFF			
2643=20522	00000/0000 2=10024/0005	10/26/76	5U	8968	6116N	15616W	14•5	160•8	GGGF			
2643=20525	00000/0000 2=10024/0006	10/26/76	4U	8968	5954N	15718W	15•6	159•7	GGGG			
2643=20531	00000/0000 2=10024/0007	10/26/76	5U	8968	5831N	15816W	16•8	158•7	FFGG			
2643=20534	00000/0000 2=10024/0008	10/26/76	7U	8968	5707N	15910W	17•9	157•7	GGGG			
2643=20540	00000/0000 2=10024/0009	10/26/76	8U	8968	5544N	16000W	19•0	156•8	GGGG			
2643=20543	00000/0000 2=10024/0010	10/26/76	7U	8968	5419N	16049W	20•1	155•9	GGGG			
2644=20562	00000/0000 2=10024/0099	10/27/76	5U	8982	6640N	15235W	9•6	165•8	GGFF			
2644=20565	00000/0000 2=10024/0100	10/27/76	3U	8982	6520N	15403W	10•7	164•4	GGFG			
2644=20571	00000/0000 2=10024/0101	10/27/76	4U	8982	6359N	15523W	11•9	163•1	GGFG			
2644=20574	00000/0000 2=10024/0102	10/27/76	3U	8982	6237N	15636W	13•0	161•9	GGFF			
2644=20580	00000/0000 2=10024/0103	10/27/76	1U	8982	6115N	15744W	14•2	160•8	GGFF			
2644=20583	00000/0000 2=10024/0104	10/27/76	2U	8982	5952N	15846W	15•3	159•8	GGFF			
2644=20585	00000/0000 2=10024/0105	10/27/76	8U	8982	5830N	15944W	16•4	158•8	GGFF			
2644=20592	00000/0000 2=10024/0106	10/27/76	9U	8982	5707N	16037W	17•6	157•8	GGFF			
2644=20594	00000/0000 2=10024/0107	10/27/76	7U	8982	5544N	16127W	18•7	156•9	GPGG			
2644=21001	00000/0000 2=10024/0108	10/27/76	6U	8982	5420N	16215W	19•8	156•0	GGGG			
2645=21020	00000/0000 2=10024/0135	10/28/76	8U	8996	6640N	15402W	9•3	165•9	GGGG			
2645=21023	00000/0000 2=10024/0136	10/28/76	8U	8996	6520N	15530W	10•4	164•5	GGGG			
2645=21025	00000/0000 2=10024/0137	10/28/76	6U	8996	6359N	15650W	11•6	163•2	GGGG			
2645=21032	00000/0000 2=10024/0138	10/28/76	4U	8996	6237N	15803W	12•7	162•0	GGGG			
2645=21034	00000/0000 2=10024/0139	10/28/76	6U	8996	6116N	15910W	13•8	160•9	GGGG			

KEYS:

CLOUD COVER % * * * * *
 IMAGE QUALITY * * * * *
 MSS DATA MODE * * * * *
 MSS IMAGE GAIN * * * * *

O TO 100 = % CLOUD COVER.
 BLANKS=BAND NOT AVAILABLE. G=G80D. P=P90H. F=FAIR.
 (BLANK)=COMPRESSED, L=LINEAR
 (BLANK)=LOW GAIN, H=HIGH GAIN

17:26 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR ALASKA
FROM 11/01/76 TO 11/30/76

PAGE 0030

Observation ID	Microfilm Roll No./ Position in Roll	Date Acquired	Cloud Cover	Principal Point Number	Sun Elevation	Sun Azimuth	Image Quality	MSS Data Mode	Image Gain
	RBV			LAT	LENG		MSS	RBV	MSS
	MSS						123	45678	Mode Gain
2645-21041	00000/0000	2-10024/0140	10/28/76	2U	8996	5953N	16012W	15.0	159.8
2645-21043	00000/0000	2-10024/0141	10/28/76	4U	8996	5829N	16110W	16.1	158.9
2645-21050	00000/0000	2-10024/0142	10/28/76	5U	8996	5706N	16204W	17.2	157.9
2645-21052	00000/0000	2-10024/0143	10/28/76	4U	8996	5543N	16255W	18.4	157.0
2645-21055	00000/0000	2-10024/0144	10/28/76	5U	8996	5419N	16343W	19.5	156.1
2645-21061	00000/0000	2-10024/0145	10/28/76	5U	8996	5255N	16427W	20.6	155.3
2646-21081	00000/0000	2-10024/0109	10/29/76	7U	9010	6520N	15651W	10.1	164.5
2646-21084	00000/0000	2-10024/0110	10/29/76	6U	9010	6359N	15811W	11.2	163.2
2646-21093	00000/0000	2-10024/0111	10/29/76	9U	9010	6116N	16031W	13.5	161.0
2646-21095	00000/0000	2-10024/0112	10/29/76	8U	9010	5953N	16133W	14.7	159.9
2646-21102	00000/0000	2-10024/0113	10/29/76	6U	9010	5831N	16231W	15.8	158.9
2646-21104	00000/0000	2-10024/0114	10/29/76	8U	9010	5707N	16326W	16.9	158.0
2646-21111	00000/0000	2-10024/0115	10/29/76	7U	9010	5543N	16417W	18.1	157.1
2646-21113	00000/0000	2-10024/0116	10/29/76	4U	9010	5420N	16505W	19.2	156.2
2646-21120	00000/0000	2-10024/0117	10/29/76	4U	9010	5256N	16550W	20.3	155.4
2647-21135	00000/0000	2-10024/0195	10/30/76	U	9024	6519N	15820W	9.8	164.6
2647-21142	00000/0000	2-10024/0196	10/30/76	U	9024	6359N	15940W	10.9	163.3
2647-21144	00000/0000	2-10024/0197	10/30/76	U	9024	6237N	16054W	12.0	162.1
2647-21151	00000/0000	2-10024/0198	10/30/76	3U	9024	6116N	16202W	13.2	161.0
2647-21153	00000/0000	2-10024/0199	10/30/76	5U	9024	5953N	16304W	14.3	160.0
2647-21160	00000/0000	2-10024/0200	10/30/76	9U	9024	5830N	16401W	15.5	159.0
2647-21162	00000/0000	2-10024/0201	10/30/76	8U	9024	5707N	16455W	16.6	158.1
2647-21165	00000/0000	2-10024/0202	10/30/76	7U	9024	5544N	16546W	17.7	157.2
2647-21171	00000/0000	2-10024/0203	10/30/76	6U	9024	5419N	16634W	18.9	156.3
2647-21174	00000/0000	2-10024/0204	10/30/76	4U	9024	5255N	16719W	20.0	155.5
2648-21194	00000/0000	2-10024/0214	10/31/76	1U	9038	6519N	15949W	9.4	164.6
2648-21200	00000/0000	2-10024/0215	10/31/76	2U	9038	6358N	16108W	10.6	163.3
2648-21203	00000/0000	2-10024/0216	10/31/76	3U	9038	6237N	16220W	11.7	162.2
2648-21205	00000/0000	2-10024/0217	10/31/76	2U	9038	6115N	16327W	12.9	161.1
2648-21212	00000/0000	2-10024/0218	10/31/76	4U	9038	5953N	16428W	14.0	160.0
2648-21214	00000/0000	2-10024/0219	10/31/76	9U	9038	5830N	16526W	15.2	159.1
2648-21221	00000/0000	2-10024/0220	10/31/76	7U	9038	5707N	16620W	16.3	158.1
2648-21223	00000/0000	2-10024/0221	10/31/76	7U	9038	5544N	16711W	17.4	157.3
2648-21230	00000/0000	2-10024/0222	10/31/76	5U	9038	5420N	16758W	18.5	156.4
2648-21232	00000/0000	2-10024/0223	10/31/76	4U	9038	5256N	16844W	19.7	155.6
2648-21235	00000/0000	2-10024/0224	10/31/76	4U	9038	5131N	16927W	20.8	154.7

KEYS:

Cloud Cover X
Image Quality
MSS Data Mode
MSS Image Gain
BLANK = BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
(BLANK)=COMPRESSED, L=LINEAR
(BLANK)=LOW GAIN, H=HIGH GAIN

17:26 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR ALASKA

FROM 11/01/76 TO 11/30/76

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OBSERVATION ID	MICROFILM POSITION IN ROLL RV	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE	SUN ELEV.	SUN LONG	IMAGE-QUAL AZIM.	MSS DATA	MSS MODE	IMAGE GAIN	123 45678	123 45678	123 45678	123 45678	123 45678	123 45678	
								MSS									
2649-21254	0000/0000	2-10024/0313	11/01/76	11/01/76	9052	16231W	17034	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21261	0000/0000	2-10024/0314	11/01/76	9052	16343W	1144	1622	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21263	0000/0000	2-10024/0315	11/01/76	9052	16450W	126	1611	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21270	0000/0000	2-10024/0316	11/01/76	9052	16553W	1307	1601	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21272	0000/0000	2-10024/0317	11/01/76	9052	16651W	148	1591	G	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21273	0000/0000	2-10024/0318	11/01/76	9052	16746W	160	1582	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21281	0000/0000	2-10024/0319	11/01/76	9052	16838W	171	1573	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21284	0000/0000	2-10024/0320	11/01/76	9052	16926W	182	1565	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21290	0000/0000	2-10024/0321	11/01/76	9052	17010W	194	1556	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2649-21293	0000/0000	2-10024/0322	11/01/76	9052	17053W	205	1548	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2650-21312	0000/0000	2-10024/0323	11/02/76	9066	16359W	99	1634	FGGG	FGGG	FGGG	FGGG	FGGG	FGGG	FGGG	FGGG	FGGG	FGGG
2650-21315	0000/0000	2-10024/0324	11/02/76	9066	16237W	1613W	1622	GGFG	GGFG	GGFG	GGFG	GGFG	GGFG	GGFG	GGFG	GGFG	GGFG
2650-21321	0000/0000	2-10024/0325	11/02/76	9066	16115N	16620W	122	1612	CFA	CFA	CFA	CFA	CFA	CFA	CFA	CFA	CFA
2650-21324	0000/0000	2-10024/0326	11/02/76	9066	16115N	16722W	134	1601	GFGG	GFGG	GFGG	GFGG	GFGG	GFGG	GFGG	GFGG	GFGG
2650-21330	0000/0000	2-10024/0327	11/02/76	9066	16820W	145	1592	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2650-21333	0000/0000	2-10024/0328	11/02/76	9066	16358W	16359W	1634	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2650-21335	0000/0000	2-10024/0329	11/02/76	9066	16237W	16513W	1622	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2650-21342	0000/0000	2-10024/0330	11/02/76	9066	16115N	16915W	157	1583	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2650-21344	0000/0000	2-10024/0331	11/02/76	9066	16830N	1545	1574	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2650-21351	0000/0000	2-10024/0332	11/02/76	9066	16237W	17006W	1584	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21371	0000/0000	2-10024/0333	11/03/76	9080	16357W	16526W	96	1634	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21375	0000/0000	2-10024/0334	11/03/76	9080	16237W	16638W	108	1623	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21380	0000/0000	2-10024/0335	11/03/76	9080	16115N	16745W	119	1612	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21382	0000/0000	2-10024/0336	11/03/76	9080	16592N	16847W	131	1602	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21385	0000/0000	2-10024/0337	11/03/76	9080	16237W	16645W	142	1592	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21391	0000/0000	2-10024/0338	11/03/76	9080	16080N	17039W	154	1583	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21394	0000/0000	2-10024/0339	11/03/76	9080	16115N	17130W	165	1575	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21400	0000/0000	2-10024/0340	11/03/76	9080	16419N	17217W	176	1566	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21403	0000/0000	2-10024/0341	11/03/76	9080	16221W	17221W	202	1549	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2651-21405	0000/0000	2-10024/0342	11/03/76	9080	16357W	16526W	96	1634	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2652-21422	0000/0000	2-10024/0378	11/04/76	9080	16237W	16638W	108	1623	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2652-21431	0000/0000	2-10024/0379	11/04/76	9080	16115N	16745W	119	1612	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2652-21434	0000/0000	2-10024/0380	11/04/76	9080	16221W	17301W	188	1558	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2652-21442	0000/0000	2-10024/0381	11/04/76	9080	16131N	17344W	199	1550	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2652-21452	0000/0000	2-10024/0382	11/04/76	9080	16648W	16648W	93	1635	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
2652-21454	0000/0000	2-10024/0383	11/04/76	9080	16802W	16802W	105	1623	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG	GGGG
KEYS:	CLOUD COVER %	IMAGE QUALITY	MSS DATA MODE	MSS IMAGE GAIN	BLANK = CLOUD COVER. BLANK = BAND NOT AVAILABLE. (BLANK) = COMPRESSED. (BLANK) = LINEAR. (BLANK) = HIGH GAIN.	0 TO 100 % CLOUD COVER. BLANK = BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.											

17126 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR ALASKA
FROM 11/01/76 TO 11/30/76

PAGE 0032

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL	DATE ACQUIRED	CLOUD ORBIT NUMBER	PRINCIPAL POINT OF IMAGE	SUN ELEV.	SUN AZIM.	IMAGE-QUAL	MSS RBV	MSS DATA	IMAGE GAIN
	RBV MSS		LAT	LONG						
2652-21461	00000/0000 2-10024/0384	11/04/76	70	9094	5255N	17428W	18.5	155.9	GGGG	
2652-21463	00000/0000 2-10024/0385	11/04/76	70	9094	5131N	17510W	19.6	155.1	GGGG	

KEYS:
CLOUD COVER X = CLOUDY. O = CLOUD COVER.
IMAGE QUALITY = GOOD. P = POOR. F = FAIR.
(BLANK) = COMPRESSED, L = LINEAR
(BLANK) = LOW GAIN, H = HIGH GAIN
MSS DATA MODE =
MSS IMAGE GAIN =

0033

**LANDSAT 2
COORDINATE LISTING**

17:23 DEC 17, 1976

LANDSAT-2
COORDINATE LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	DUALITY RBV MSS	12345678
LONG LAT	4717N 2645*14145	70	GGG	06345W
06345W	4716N 2646*14203	90	FFGG	06513W
06513W	4551N 2646*14210	40	GFFG	06548W
06548W	4426N 2646*14212	50	GGGG	06621W
06621W	4717N 2647*14262	30	GGGG	06639W
06639W	4302N 2646*14215	50	GGGG	06653W
06653W	4552N 2647*14264	10	GGGG	06714W
06714W	4427W 2647*14271	10	GGGG	06747W
06747W	4718N 2648*14320	100	GGGF	06806W
06806W	4302N 2647*14273	10	GGGG	06819W
06819W	4553N 2648*14322	90	GGGF	06841W
06841W	4137N 2647*14280	10	GGGG	06851W
06851W	4428N 2648*14325	90	GGGF	06914W
06914W	4011N 2647*14282	10	GGGG	06922W
06922W	4717N 2649*14374	100	GGGG	06931W
06931W	4303N 2648*14331	100	GGGG	06946W
06946W	4553N 2649*14380	90	GGGG	07006W
07006W	4301N 2648*14334	90	GGGG	07017W
07017W	3846N 2648*14343	80	GGGG	07116W
07116W	07039W 2649*14383	80	GGGG	07047W
07047W	4012N 2648*14340	90	GGGG	07057W
07057W	2650*14432	90	GGGG	07111W
07111W	4301N 2649*14385	60	GGGG	07247W
07247W	2650*14441	60	GGGG	07211W
07211W	3556N 2648*14352	70	GGGG	4136N
4136N	2649*14394	50	FGGG	3721N
3721N	2648*14345	70	GGGG	07144W
07144W	2650*14444	10	GGGG	07206W
07206W	3846N 2649*14401	80	GGGG	07242W
07242W	2650*14493	60	GGGG	07259W
07259W	4302N 2649*14403	90	GGGG	3721N
3721N	2650*14450	0	GGGG	4136N
4136N	2652*14542	100	GGGG	07315W

KEYS: CLOUD COVER % *****
IMAGE QUALITY *****0 TO 100 = % CLOUD COVER.
BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	12345678
LONG LAT	07332W 4427N	60	GGGG	07722W
07332W	3555N 44410	80	GGGG	07726W
07341W	4011N 44453	10	GGGG	07727W
07351W	4716N 45455	100	GGGG	07734W
07404W	4302N 4502	90	GGGG	07747W
07404W	2651*14495	70	GGGG	07722W
07410W	3846V 44455	10	GGGG	07754W
07426W	4551V 44551	90	GGGG	07756W
07430N	3305N 4415	80	GGGG	07812W
07430N	2649*14412	70	GGGG	07821W
07438W	3720N 44662	10	GGGG	07824W
07439W	4840N 50000	80	GGGG	07824W
07455W	3139N 4421	50	GGGG	07836W
07455W	2652*14554	90	GGGG	07847W
07455W	4137N 44504	90	GGGG	07852W
07466W	2651*14464	20	GGGG	07852W
07506W	4012N 44664	90	GGGG	07854W
07515W	4716N 5003	80	GGGG	07900W
07531W	4301N 4560	90	GGGG	07913W
07531W	2650*14471	50	GGGG	07920W
07535W	3846N 45151	50	GGGG	07923W
07550W	4551V 5003	80	GGGG	07924W
07550W	2653*15003	80	GGGG	07939W
07550W	4301N 4560	90	GGGG	07946W
07555N	2650*14464	20	GGGG	07955N
07555N	4134N 5032	10	FGGG	07955N
07555N	2654*15075	60	GGGF	07955N
07555N	4134N 5081	90	GGGF	07955N
07555N	2651*14545	90	GGGF	07955N
07555N	2652*14592	0	GGGF	07955N
07555N	3721N 5035	0	FGGG	07955N
07555N	2651*14552	90	GGGG	07955N
07555N	4134N 5084	10	GGGG	07955N
07555N	2654*15081	30	GGGG	07955N
07555N	3012N 5095	10	GGGG	07955N
07555N	3138N 5092	0	GGGF	07955N
07555N	2651*14554	80	GGGF	07955N
07555N	3430N 5041	0	FGGG	07955N
07555N	2654*15090	90	GGGG	07955N
07555N	3430N 5084	10	GGGG	07955N
07555N	2652*15001	50	GGGG	07955N
07555N	3305N 5044	20	GGGG	07955N
07555N	2651*14520	30	GGGG	07955N
07555N	3846N 5054	100	GGGG	07955N
07555N	2654*15054	60	FGGG	07955N
07555N	3845N 5084	2845N	FGGG	07955N
07555N	2650*14480	60	FGGG	07955N
07555N	4426N 5012	60	FGGG	07955N
07555N	2653*15012	60	FGGG	07955N
07555N	4426N 5012	60	FGGG	07955N
07555N	2651*14522	60	GGGG	08022W
07630W	4011N 4565	40	GGGG	08028W
07644W	4716N 5061	90	FFGG	08039W
07644W	3013N 4482	80	GGGG	08050W
07656W	4301N 5014	60	GGGG	08051W
07656W	2653*15014	60	GGGG	08051W
07713W	4011N 4525	90	GGGG	08103W
07655N	3138N 5053	30	FFGF	08114W
07655N	2654*15093	0	GGGG	08116W
07655N	3429N 5095	0	GGGG	08127W
07655N	2654*15055	50	FGGG	08127W

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LANDSAT-2
COORDINATE LISTING
FOR CONTIGUOUS US
FROM 11/01/76 THRU 11/30/76

PAGE 0035

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC QUALITY RBV MSS X	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC QUALITY RBV MSS X	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC QUALITY RBV MSS X		
08141W	3303N	2654-15102	0	GGGG	09303W	2647-16100	30	GFFF	09607W	3721N	2647-16123	90	GGGG	09612W	2720N	
08150W	2/20N	2653-15062	60	GGG	09308W	2644-15564	70	FGGG	09625W	3138N	2645-16040	100	GGGG	09625W	3138N	
08206W	3137N	2654-15104	10	GGGG	0/313W	2646-16053	90	GGGG	09629W	4427N	2646-16082	100	GGFG	09629W	4427N	
08213W	2955N	2653-15064	70	GGF	0931~W	2722N	2645-16010	10	GGGG	09634W	3555N	2647-16125	90	GGGG	09634W	3555N
08230W	3012N	2654-15111	20	GFF	09319W	4841V	2648-16145	40	GGGG	09635W	2555N	2645-16042	100	GGGG	09635W	2555N
08237W	2428N	2653-15071	30	GFG	09333W	3136V	2644-15570	80	GGGG	09637W	4011N	2648-16172	0	GGGG	09637W	4011N
08254W	2836N	2614-15113	20	GG	09336W	4426V	2647-16102	30	GGGG	09648W	4717N	2650-16264	0	GGGG	09648W	4717N
08317W	2720N	2614-15120	30	GGF	09341W	3556V	2645-16013	10	GGGG	09649W	3013N	2646-16085	100	GGGG	09649W	3013N
08340W	2554N	2614-15122	40	GGG	09343W	4012V	2646-16055	90	GGGG	09658W	2429N	2645-16045	90	GGGG	09658W	2429N
08402W	2424N	2654-15125	70	GGG	09358W	3011V	2644-15573	100	GGGG	09700W	3429N	2647-16132	90	GGGG	09700W	3429N
08734W	4842V	2644-15520	30	GGG	09406W	3006V	2649-16201	10	GGGG	09711W	4301N	2649-16221	30	GGGG	09711W	4301N
08811W	4716N	2644-15523	50	GGG	09408W	4302V	2647-16105	50	GGGG	09736W	3845N	2648-16174	0	GGGG	09736W	3845N
08846W	4551N	2644-15525	10	GGG	09408W	3430V	2645-16015	50	GGGG	09741W	2847N	2646-16091	100	GGGG	09741W	2847N
08900W	4841N	2645-15574	20	GGG	09412W	3847V	2646-16062	90	GGGG	09723W	4552N	2650-16270	10	GGGG	09723W	4552N
08920W	4427N	2644-15532	0	GGG	09422W	2846V	2644-15575	100	GGGG	09726W	3303N	2647-16134	40	FGGG	09726W	3303N
08937W	4716N	2645-15581	40	GGF	09430W	4552V	2648-16154	0	PGGG	09732W	4136N	2649-16224	20	GGGG	09732W	4136N
08952W	4302N	2644-15534	10	GGG	09436W	3303N	2645-16022	80	GGGG	09734W	3720N	2648-16181	0	FGGG	09734W	3720N
09012W	4551N	2645-15583	10	GGG	09439W	4136V	2647-16111	90	GGGG	09742W	2721N	2646-16094	100	GGGG	09742W	2721N
09023W	4137N	2644-15541	10	GGG	09441W	3721V	2646-16064	100	GGGG	09752W	3139N	2647-16141	0	GGGG	09752W	3139N
09026W	4841N	2646-16032	80	GGG	09445W	4841V	2649-16203	10	GGGG	09756W	4427N	2650-16273	10	GGGG	09756W	4427N
09045W	4426N	2645-15590	10	GGG	09446W	2720V	2644-15582	100	GGGG	09801W	3554N	2648-16183	10	GGGG	09801W	3554N
09052W	4426N	2644-15543	40	GGG	09450W	3137V	2645-16024	90	GGGG	09801W	2555N	2646-16100	100	GGGG	09801W	2555N
09103W	4717N	2646-16035	10	FFG	09452W	4427V	2648-16160	10	GGGG	09802W	4012N	2649-16230	10	GGGG	09802W	4012N
09117W	4301N	2645-15592	0	GGG	09455W	3555V	2646-16071	100	GGGG	09817W	3013N	2647-16143	0	GGGG	09817W	3013N
09121W	3846N	2644-15550	70	GGG	09458W	4011V	2647-16114	90	GGGG	09827W	3428N	2648-16190	10	GGGG	09827W	3428N
09138W	4952N	2646-16044	10	GGG	09460W	2554V	2644-15584	90	GGGG	09832W	4301N	2650-16275	0	GGGG	09832W	4301N
09148W	4011N	2644-15543	40	GGG	09463W	0950W	2645-16024	90	GGGG	09842W	3846N	2649-16233	10	GGGG	09842W	3846N
09215W	3555N	2644-15595	10	GGG	09465W	0950V	2648-16210	100	GGGG	09853W	3303N	2647-16150	0	GGGG	09853W	3303N
09217W	4012N	2645-16001	10	GGG	09467W	0952V	2645-16031	100	GGGG	09859W	4136V	2650-16282	20	GGGG	09859W	4136V
09228W	4716N	2647-16093	70	GGF	09469W	0952V	2644-15591	90	GGGG	09860W	3721N	2649-16235	0	GGGG	09860W	3721N
09241W	3429N	2644-15561	90	GGG	09471W	0952V	2646-16073	100	GGGG	09918W	3138V	2647-16152	0	GGGG	09918W	3138V
09243W	4302N	2646-16050	30	GGG	09473W	0952V	2646-16080	100	GGGG	09928W	3555N	2649-16242	0	GGGG	09928W	3555N
09245W	3847V	2645-16004	10	GGG	09475W	0952V	2648-16163	10	GGGG	09930W	09928W	2647-16155	0	GGGG	09930W	09928W

KEYS: CLOUD COVER % IMAGE QUALITY O TO 100 % X CLOUD COVER.
BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

17:23 DEC 17, '76

LANDSAT-2
COORDINATE LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PAGE 0036

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	QUALITY RBV MSS	CC %	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	QUALITY RBV MSS	CC %	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	QUALITY RBV MSS	CC %	
LONG	LAT	LONG	LAT	LONG	LAT	LONG	LAT	LONG	LAT	LONG	LAT	
09929N	4011N	2650=16284	80	GGGG	11612W	4841N	2646=17464	50	GGGG	12029W	4136N	2647=17543
09942N	3012N	2648=16201	0	GGGG	11634W	4427N	2645=17421	10	GGGG	12030W	3720N	2646=17500
09954N	3430N	2649=16244	10	GGGG	11643W	4011N	2644=17375	10	FGGG	12035W	4841N	2649=18035
09958N	3846N	2650=16291	70	GGGG	11652W	4717N	2646=17471	70	GGGG	12049W	4427N	2648=17592
10000N	2847N	2648=16204	0	FGGG	11703W	5005N	2647=17520	30	GGGG	12057W	3554N	2646=17503
10002N	3304N	2649=16251	0	GGGG	11704W	4302N	2645=17424	0	GGGG	12059W	4011N	2647=17545
10002N	3721N	2650=16293	10	GGGG	11711W	4845N	2644=17381	0	GGGG	12111W	4715N	2649=18041
10002N	2720N	2648=16210	10	GGGG	11722W	4552N	2646=17473	60	GGGG	12121W	4302N	2648=17594
10004N	3139N	2649=16253	10	GGGG	11738W	4136N	2645=17430	0	GGGG	12123W	3429N	2646=17505
10052N	2554N	2648=16213	50	GGGG	11739W	3719N	2644=17384	0	GGGG	12128W	3846N	2647=17552
10053N	3555N	2650=16300	0	GGGG	11742W	4841N	2647=17522	80	GGGG	12146W	4550N	2649=18044
10109N	3014N	2649=16260	10	GGGG	11800W	4427N	2646=17480	90	GGGG	12153W	4138N	2648=18001
10120N	3430N	2650=16302	0	GGGG	11805W	3554N	2644=17390	0	GGGG	12157W	3721N	2647=17554
10133N	2848N	2649=16262	30	GGGG	11807W	4010N	2645=17433	0	GGGG	12159W	4841N	2650=18093
10145N	3304N	2650=16305	0	GGGG	11816W	4716N	2647=17525	70	GGGG	12220W	4426N	2649=18050
10157N	2721N	2649=16265	70	GGGG	11826W	5005N	2648=17531	90	GGGG	12224W	4012N	2648=18003
10210N	3135N	2650=16311	0	GGGG	11831W	3429N	2644=17393	0	GGGG	12225W	3555N	2647=17561
10235N	3012N	2650=16314	0	GGGG	11832W	4301N	2646=17482	60	GGGG	12236W	4717N	2650=18095
10258N	2846N	2650=16320	10	GGGG	11836W	3845N	2645=17435	0	GGGG	12252W	4302N	2649=18053
10322N	2720N	2650=16323	0	GGGG	11853W	4552N	2647=17531	50	GGGG	12254W	3847N	2648=18010
11245N	5005N	2644=17345	70	GGGG	11903W	4135N	2646=17485	40	GGGG	12311W	4552N	2650=18102
11323N	4841N	2644=17352	70	GGGG	11904W	3720N	2645=17442	0	GGGG	12322W	3721N	2648=18012
11400N	4716N	2644=17354	50	FGGG	11906W	4841N	2648=17580	90	GGGG	12324W	4137N	2649=18055
11411N	5006N	2645=17403	40	GGGG	11926W	4552N	2647=17534	60	GGGG	12345W	4427N	2650=18104
11435N	4551N	2644=17361	10	GGGG	11931W	3554N	2645=17444	0	GGGG	12354W	4011N	2649=18062
11450N	4841N	2645=17410	20	GGGG	11933W	4011N	2646=17491	40	GGGG	12417W	4301N	2650=18111
11509N	4426N	2644=17363	10	GGGG	11942W	4716N	2648=17583	70	GGGG	12423W	3846N	2649=18064
11526N	4716N	2645=17412	10	GGGG	11956W	5005N	2649=18032	20	GGGG	12448W	4137N	2650=18113
11537N	5015N	2646=17462	60	GGGG	11957W	3429N	2645=17451	0	GGGG	12451W	3720N	2649=18071
11542N	4511N	2644=17370	10	GGGG	11958W	4301N	2647=17540	40	GGGG	12517W	4011N	2650=18120
11601N	4551N	2645=17415	10	GGGG	12002W	3846N	2646=17494	20	GGGG	12518W	3555N	2649=18073
11613N	2644=17372	10	GGGG	12016W	*552N	2648=17585	70	GGGG				

KEYS: CLOUD COVER % *****
IMAGE QUALITY *****
O TO 100 = % CLOUD COVER.
BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

17:26 DEC 17, '76

LANDSAT-2
COORDINATE LISTING
FOR ALASKA
FROM 11/01/76 TO 11/30/76

PAGE 0037

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC QUALITY RBV MSS	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC QUALITY RBV MSS	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC QUALITY RBV MSS
LONG	LAT	%	LONG	LAT	%	LONG	LAT	%
17446E	5418N	100	GGGG	16000W	80	GGGG	1615N	40
14943W	6641N	40	PGGG	16012W	20	GGGG	16620W	70
15106W	6641N	100	FFFF	16050W	90	FGGG	16634W	60
15111W	6521N	40	GGGG	16037W	90	GPFF	16638W	60
15231W	6400N	80	GGGG	16049W	70	GGGG	16648W	10
15235W	6640N	50	GFFF	16054W	10	GF GG	16651W	90
15235W	6520N	90	FGGG	16108W	20	GGGG	16711W	70
15345W	6238N	80	GGGG	16110W	40	GGGG	16719W	40
15355W	6400N	70	GGGG	16127W	70	GPGG	16722W	30
15402W	6640N	80	GGGG	16133W	80	FFFG	16745W	60
15403W	6520N	30	GGGG	16202W	30	GGGG	16746W	90
15452W	6116N	80	GGGG	16204W	50	GGGG	16758W	50
15508W	6238N	40	GFFF	16215W	60	GGGG	16802W	60
15523W	6359N	40	GFFF	16220W	30	FGGG	16820W	90
15530W	6520N	80	GGGG	16231W	20	GGGG	16833W	90
15554W	5953N	90	GGGG	16231W	60	FFGF	16847W	50
15616W	6116N	50	GGGF	16255W	40	GGGG	16910W	70
15636W	6237N	30	GGGF	16304W	50	GGGG	16915W	90
15650W	6359N	60	GGGG	16326W	80	GGGF	16926W	50
15661W	6520N	70	FFFF	16327W	20	GGGG	16927W	40
15662W	5830N	90	GGGG	16343W	30	GGGG	16945W	90
15718W	5954N	40	GFFF	16343W	50	GGGG	17006W	100
15744W	6115N	10	GFFF	16359W	40	FGGF	17010W	90
15745W	5707N	90	GGGG	16401W	90	GGGG	17039W	90
15803W	6237N	40	GGGG	16411W	70	GGFF	17053W	90
15811W	6359N	60	FFFF	16427W	50	GGGG	17054W	100
15816W	5831N	50	GGGG	16428W	40	GGGG	17130W	90
15820W	6519N	0	GGGG	16450W	70	GGGG	17138W	100
15835W	5943N	90	GGGG	16453W	80	FFFF	17206W	90
15846W	5952N	20	GGFF	16500W	40	GGFF	17217W	90
15910W	6116N	60	GGGG	16513W	30	GGGG	17221W	100
15910W	5/07N	70	GGGG	16526W	10	GGGG	17256W	80
15922W	5419N	80	GGGG	16526W	90	GGGG	17301W	70
15940W	6359N	10	FGGG	16546W	70	GGFF	17343W	90
15944W	5830N	80	GGGG	16550W	40	GGGG	17344W	40
15949W	6519N	10	GGGG	16553W	80	GGGG	1731N	100

KEYS: CLOUD COVER %
IMAGE QUALITY0 TO 100 = % CLOUD COVER.
BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

17126 DEC 17, '76

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PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC QUALITY									
LONG	LAT	% RBV MSS									
17428W	5255N	12345678	17510W	5131N	12345678	17510W	5131N	12345678	17510W	5131N	12345678
		70			70			70			70
		GGGG			GGGG			GGGG			GGGG

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

LANDSAT-2
COORDINATE LISTING
FBI ALASKA
FROM 11/01/76 TO 11/30/76

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APPENDIX

EXPLANATION OF OBSERVATION ID

The day after the 999th day of operation of LANDSAT 1, the first digit of the observation ID becomes a 5, signifying that the 1000th day of operation has been reached. The next three digits, which correspond to the count of days since launch, return to 000. On each day thereafter the count, as before, increases by one. The ID format for LANDSAT 1 is illustrated below:

1000 - hhmmss	--	--
1998 - hhmmss	April 18, 1975	
1999 - hhmmss	April 19, 1975	
5000 - hhmmss		
5001 - hhmmss (Days since launch equal 1001)		
--	--	--

The same general identification procedure will be used for LANDSAT 2 imagery. The day after the 999th day of operation of LANDSAT 2, the first digit of the observation ID becomes a 6, and the next three digits return to 000 as explained above. An illustration follows:

2000 - hhmmss	--	--
2999 - hhmmss		
6000 - hhmmss		
6001 - hhmmss (Days since launch equal 1001)		
--	--	--

Key: hh = hours
 mm = minutes
 s = tens of seconds